



# PADS® Libraries Reference Guide

PADS 9.4

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# Chapter 1

## Preview Library

The following table lists all the part types in the preview sample library. This listing is based on the part types and lists any associated PCB Decals and Logic Decals. The associated PCB and/or Logic decals are not necessarily sourced from the same library as the part type. For example, in the library listing below, the +5VREG gets its PCB decal from the “common” library.

**Table 1-1. Preview Library Part Types**

Part Type	PCB Decals	Logic Decals	Description
+5VREG	TO-213AA:OSC	+5VREG-V	+5V LINEAR REGULATOR
14-576MHZ	OSC	XTAL:XTALH	
26PINCONN	26PINCONN	EXTIN:EXTOUT	CONNECTOR, RIBBON, 26 PIN
87C256	SO28	87C256	32K X 8 BIT CMOS EPROM/LATCH
SHIELD	SHIELD		



## Chapter 2

# Common Library

The following table lists all the part types in the common sample library. This listing is based on the part types and lists any associated PCB Decals and Logic Decals. The associated PCB and/or Logic decals are not necessarily sourced from the same library as the part type.

**Table 2-1. Common Library Part Types**

Part Type	PCB Decals	Logic Decals	Description
AGND_SYMS		GND:AGND:CHGND	
POSRES_SYMS		REFIN:REFOUT	
POWER_SYMS		+5V:BUBBLE:Y:+12V: -5V:-12V:+5VA	
+5VREG	TO-220-UP	+5VREG-V	+5V LINEAR REGULATOR
0402	0402		SURFACE MOUNT RESISTOR 0.020 X 0.040 INCHES
0603	0603		SURFACE MOUNT RESISTOR OR CAP 0.031 X 0.061 INCHES
0805	0805		SURFACE MOUNT RESISTOR OR CAP 0.048 X 0.079 INCHES
0805MIL	0805MIL		MILSPEC 0805 BODY FOR RES. OR CAP.
1005	1005		SURFACE MOUNT CAPACITOR 0.050 X 0.100 INCHES
1005MIL	1005MIL		MILSPEC 1005 BODY FOR RES. OR CAP.
1010	1010		SURFACE MOUNT INDUCTOR 0.095 X 0.110 INCHES
1206	1206		SURFACE MOUNT RESISTOR OR CAPACITOR 0.062 X 0.126 INCHES
1206MIL	1206MIL		MILSPEC 1206 BODY FOR RES. OR CAP.
1206WS	1206WS		1206 BODY OPTIMIZED FOR WAVE SOLDER
1210	1210		SURFACE MOUNT RESISTOR OR CAPACITOR 0.098 X 0.126 INCHES
1210MIL	1210MIL		MILSPEC 1210 BODY FOR RES. OR CAP.
1210WS	1210WS		1210 BODY OPTIMIZED FOR WAVE SOLDER

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
505MIL	1505MIL		MILSPEC 1505 BODY
510MIL	1510MIL		MILSPEC 1510 BODY
706MIL	1706MIL		MILSPEC 1706 BODY
805	1805		SURFACE MOUNT CAPACITOR 0.050 X 0.180 INCHES
808	1808		SURFACE MOUNT CAPACITOR 0.080 X 0.180 INCHES
808MIL	1808MIL		MILSPEC 1808 CAPACITOR BODY
812	1812		SURFACE MOUNT CAPACITOR 0.125 X 0.180 INCHES
812MIL	1812MIL		MILSPEC 1812 CAPACITOR BODY
825	1825		SURFACE MOUNT CAPACITOR 0.250 X 0.180 INCHES
2010	2010		SURFACE MOUNT CAPACITOR 0.100 X 0.200 INCHES
2010MIL	2010MIL		MILSPEC 2010 BODY
2220	2220		SURFACE MOUNT CAPACITOR 0.200 X 0.220 INCHES
2225	2225		SURFACE MOUNT CAPACITOR 0.250 X 0.220 INCHES
2512	2512		SURFACE MOUNT CAPACITOR 0.126 X 0.248 INCHES
3210	3210		SURFACE MOUNT VARISTOR 5.99 X 8.0 MM
3216	3216		SURFACE MOUNT TANT. CAPACITOR 'A' CASE SIZE
3518	3518		SURFACE MOUNT TANT. CAPACITOR, EXTENDED RANGE 3518
3527	3527		SURFACE MOUNT TANT. CAPACITOR, EXTENDED RANGE 3527
3528	3528		SURFACE MOUNT TANT. CAPACITOR 'B' CASE SIZE
3825	3825		SURFACE MOUNT TANT. CAPACITOR, 'D' CASE SIZE
4526	4526		TANTALUM CAPACITOR 2.6 X 4.6 MM



Table 2-1. Common Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
5125	5125		SURFACE MOUNT TANT. CAPACITOR, 'E' CASE SIZE
5534	5534		SURFACE MOUNT TANT. CAPACITOR, 'F' CASE SIZE
5845	5845		SURFACE MOUNT TANT. CAPACITOR, 'E' CASE SIZE
6032	6032		SURFACE MOUNT TANT. CAPACITOR 'C' CASE SIZE
6728	6728		SURFACE MOUNT TANT. CAPACITOR, 'G' CASE SIZE
7041	7041		SURFACE MOUNT TANT. CAPACITOR, 'H' CASE SIZE
7227	7227		SURFACE MOUNT TANT. CAPACITOR, EXTENDED RANGE 7227
7243	7243		SURFACE MOUNT TANT. CAPACITOR 'D' CASE SIZE
7257	7257		SURFACE MOUNT TANT. CAPACITOR, EXTENDED RANGE 7257
7343	7343		SURFACE MOUNT TANT. CAPACITOR, 'D' CASE SIZE
8060	8060		SURGE SUPPRESSOR 6.0 X 8.0 MM
AE4	AE4		ALUMINUM ELECTROLYTIC CAP.
AE5	AE5		ALUMINUM ELECTROLYTIC CAP.
AE6.3	AE6.3		ALUMINUM ELECTROLYTIC CAP.
B6	B6		ALUMINUM ELECTROLYTIC CAP.
BEAD-1	BEAD-1		SURFACE MOUNT CHIP BEAD, 0.120 X 0.184
BEAD-2	BEAD-2		SURFACE MOUNT CHIP BEAD, 0.120 X 0.359
BGA100-1	BGA100-1		100 PIN BGA PACKAGE, 10 X 10 MATRIX, 1.5MM PITCH
BGA100-2	BGA100-2		100 PIN BGA PACKAGE, 10 X 10 MATRIX, 1.27MM PITCH
BGA100-3	BGA100-3		100 PIN BGA PACKAGE, 10 X 10 MATRIX, 1MM PITCH
BGA121-1	BGA121-1		121 PIN BGA PACKAGE, 11 X 11 MATRIX, 1.5MM PITCH

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BGA121-2	BGA121-2		121 PIN BGA PACKAGE, 11 X 11 MATRIX, 1.27MM PITCH
BGA144-1	BGA144-1		144 PIN BGA PACKAGE, 12 X 12 MATRIX, 1.5MM PITCH
BGA144-2	BGA144-2		144 PIN BGA PACKAGE, 12 X 12 MATRIX, 1MM PITCH
BGA16	BGA16		16 PIN BGA PACKAGE, 4 X 4 MATRIX, 1.5MM PITCH
BGA169	BGA169		169 PIN BGA PACKAGE, 13 X 13 MATRIX, 1.27MM PITCH
BGA196-1	BGA196-1		196 PIN BGA PACKAGE, 14 X 14 MATRIX, 1.5MM PITCH
BGA196-2	BGA196-2		196 PIN BGA PACKAGE, 14 X 14 MATRIX, 1MM PITCH
BGA225-1	BGA225-1		225 PIN BGA PACKAGE, 15 X 15 MATRIX, 1.5MM PITCH
BGA225-2	BGA225-2		225 PIN BGA PACKAGE, 15 X 15 MATRIX, 1.27MM PITCH
BGA25	BGA25		25 PIN BGA PACKAGE, 5 X 5 MATRIX, 1.27MM PITCH
BGA256-1	BGA256-1		256 PIN BGA PACKAGE, 16 X 16 MATRIX, 1.5MM PITCH
BGA256-2	BGA256-2		256 PIN BGA PACKAGE, 16 X 16 MATRIX, 1.27MM PITCH
BGA256-3	BGA256-3		256 PIN BGA PACKAGE, 16 X 16 MATRIX, 1MM PITCH
BGA324-1	BGA324-1		324 PIN BGA PACKAGE, 18 X 18 MATRIX, 1.5MM PITCH
BGA324-2	BGA324-2		324 PIN BGA PACKAGE, 18 X 18 MATRIX, 1.27MM PITCH
BGA324-3	BGA324-3		324 PIN BGA PACKAGE, 18 X 18 MATRIX, 1MM PITCH
BGA36-1	BGA36-1		36 PIN BGA PACKAGE, 6 X 6 MATRIX, 1.5MM PITCH
BGA36-2	BGA36-2		36 PIN BGA PACKAGE, 6 X 6 MATRIX, 1MM PITCH

Table 2-1. Common Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
BGA49-1	BGA49-1		49 PIN BGA PACKAGE, 7 X 7 MATRIX, 1.5MM PITCH
BGA49-2	BGA49-2		49 PIN BGA PACKAGE, 7 X 7 MATRIX, 1.27MM PITCH
BGA64-1	BGA64-1		64 PIN BGA PACKAGE, 8 X 8 MATRIX, 1.5MM PITCH
BGA64-2	BGA64-2		64 PIN BGA PACKAGE, 8 X 8 MATRIX, 1.27MM PITCH
BGA64-3	BGA64-3		64 PIN BGA PACKAGE, 8 X 8 MATRIX, 1MM PITCH
BGAS221	BGAS221		221 PIN BGA PACKAGE, 21 STAGGERED MATRIX, 1.27MM PITCH
BGAS242-1	BGAS242-1		242 PIN BGA PACKAGE, 22 STAGGERED MATRIX, 1.5MM PITCH
BGAS242-2	BGAS242-2		242 PIN BGA PACKAGE, 22 STAGGERED MATRIX, 1.27MM PITCH
BGAS242-3	BGAS242-3		242 PIN BGA PACKAGE, 22 STAGGERED MATRIX, 1MM PITCH
BGAS265	BGAS265		265 PIN BGA PACKAGE, 23 STAGGERED MATRIX, 1.5MM PITCH
BPFP100	BPFP100		100 PIN PLASTIC BUMP PACKAGE
BPFP132	BPFP132		132 PIN PLASTIC BUMP PACKAGE
BPFP132-2	BPFP132-2		132 PIN PLASTIC BUMP PACKAGE
BPFP164	BPFP164		164 PIN PLASTIC BUMP PACKAGE
BPFP196	BPFP196		196 PIN PLASTIC BUMP PACKAGE
BPFP244	BPFP244		244 PIN PLASTIC BUMP PACKAGE
BPFP84	BPFP84		84 PIN PLASTIC BUMP PACKAGE
BQFP68	BQFP68		68 PIN PLASTIC BUMP PACKAGE
BRIDGE1	BRIDGE1		SURFACE MOUNT BRIDGE RECTIFIER
BUTT6	BUTT6		BUTT MOUNT 6 PIN GULLWING (0.300")
BUTT6-2	BUTT6-2		BUTT MOUNT 6 PIN GULLWING (0.400")
C6	C6		ALUMINUM ELECTROLYTIC CAP.

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CC40-40	CC40-40	GEN\DIP40	GENERIC 40 PIN SMT PCB DECAL WITHOUT POWER PINS
CFP10-03	CFP10-03		10 PIN CERAMIC FLAT PACKAGE, TYPE MO-003
CFP10-04	CFP10-04		10 PIN CERAMIC FLAT PACKAGE, TYPE MO-004
CFP14-03	CFP14-03		14 PIN CERAMIC FLAT PACKAGE, TYPE MO-003
CFP14-04	CFP14-04		14 PIN CERAMIC FLAT PACKAGE, TYPE MO-004
CFP16-04	CFP16-04		16 PIN CERAMIC FLAT PACKAGE, TYPE MO-004
CFP16-21	CFP16-21		16 PIN CERAMIC FLAT PACKAGE, TYPE MO-021
CFP20-22	CFP20-22		20 PIN CERAMIC FLAT PACKAGE, TYPE MO-022
CFP24	CFP24		24 PIN CERAMIC FLAT PACKAGE
CFP24-19	CFP24-19		24 PIN CERAMIC FLAT PACKAGE, TYPE MO-019
CFP24-21	CFP24-21		24 PIN CERAMIC FLAT PACKAGE, TYPE MO-021
CFP28	CFP28		28 PIN CERAMIC FLAT PACKAGE
CFP28-19	CFP28-19		28 PIN CERAMIC FLAT PACKAGE, TYPE MO-019
CFP32	CFP32		32 PIN CERAMIC FLAT PACKAGE
CFP36-20	CFP36-20		36 PIN CERAMIC FLAT PACKAGE, TYPE MO-020
CFP36-21	CFP36-21		36 PIN CERAMIC FLAT PACKAGE, TYPE MO-021
CFP36-23	CFP36-23		36 PIN CERAMIC FLAT PACKAGE, TYPE MO-023
CFP40-18	CFP40-18		40 PIN CERAMIC FLAT PACKAGE, TYPE MO-018
CFP40-20	CFP40-20		40 PIN CERAMIC FLAT PACKAGE, TYPE MO-020

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CFP42	CFP42		42 PIN CERAMIC FLAT PACKAGE
CFP48	CFP48		48 PIN CERAMIC FLAT PACKAGE
CFP56	CFP56		56 PIN CERAMIC FLAT PACKAGE
CLCC100	CLCC100		100 PIN CLCC PACKAGE, 25 X 25 LEADS
CLCC132	CLCC132		132 PIN CLCC PACKAGE, 33 X 33 LEADS
CLCC52	CLCC52		52 PIN CLCC PACKAGE, 13 X 13 LEADS
CLCC68	CLCC68		68 PIN CLCC PACKAGE, 17 X 17 LEADS
CQFP100	CQFP100		100 PIN CQFP GULLWING PACKAGE, 20 X 30 LEADS
CQFP100-2	CQFP100-2		100 PIN CQFP GULLWING PACKAGE, 25 X 25 LEADS
CQFP120	CQFP120		120 PIN CQFP GULLWING PACKAGE, 30 X 30 LEADS
CQFP132	CQFP132		132 PIN CQFP GULLWING PACKAGE, 33 X 33 LEADS
CQFP144	CQFP144		144 PIN CQFP GULLWING PACKAGE, 36 X 36 LEADS
CQFP44	CQFP44		44 PIN CQFP J LEAD PACKAGE, 11 X 11 LEAD
CQFP52	CQFP52		52 PIN CQFP J LEAD PACKAGE, 13 X 13 LEAD
CQFP64	CQFP64		64 PIN CQFP GULLWING PACKAGE, 13 X 19 LEADS
CQFP68	CQFP68		68 PIN CQFP J LEAD PACKAGE, 17 X 17 LEAD
CQFP80	CQFP80		80 PIN CQFP GULLWING PACKAGE, 16 X 24 LEADS
CQFP84	CQFP84		84 PIN CQFP J LEAD PACKAGE, 21 X 21 LEAD
CRYSTAL1	CRYSTAL1		SURFACE MOUNT CRYSTAL
CRYSTAL2	CRYSTAL2		SURFACE MOUNT CRYSTAL 4.6 X 12.3 MM
CRYSTAL3	CRYSTAL3		SURFACE MOUNT CRYSTAL 4.5 X 12.3 MM
D2PAK	D2PAK		SURFACE MOUNT DIODE/TRANSISTOR PACKAGE
D6	D6		ALUMINUM ELECTROLYTIC CAP.
D8	D8		ALUMINUM ELECTROLYTIC CAP.

**Table 2-1. Common Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
DB9	DB9	CONIN:CONOUT:CONIN1: CONOUT1:CON_IO	SURFACE MOUNT DB9 CONNECTOR
DEL0820	DEL0820		SURFACE MOUNT INDUCTOR 0.085 X 0.242
DEL103	DEL103		SURFACE MOUNT INDUCTOR 0.100 X 0.100
DIO-MLL34	MLL34	DIO-H:DIO-V	SURFACE MOUNT DIODE, MELF (SOD-80)
DIO-MLL41	MLL41	DIO-H:DIO-V	SURFACE MOUNT DIODE, MELF
DIODE2	DIODE2		SURFACE MOUNT DIODE 2.6 X 5.1 MM
DIP10	DIP10	GEN\DIP10	GENERIC 10 PIN DUAL INLINE PACKAGE (DI PCB DECAL
DIP12	DIP12	DIP12	GENERIC 12 PIN DUAL INLINE PACKAGE (DI PCB DECAL
DIP14	DIP14	GEN\DIP14	GENERIC 14 PIN DUAL INLINE PACKAGE (DI PCB DECAL
DIP16	DIP16	GEN\DIP16	GENERIC 16 PIN DUAL INLINE PACKAGE (DI PCB DECAL
DIP18	DIP18	GEN\DIP18	GENERIC 18 PIN DUAL INLINE PACKAGE (DI PCB DECAL
DIP20	DIP20	GEN\DIP20	GENERIC 20 PIN DUAL INLINE PACKAGE (DI PCB DECAL
DIP22	DIP22-300	GEN\DIP22	GENERIC 22 PIN DUAL INLINE PACKAGE (DI PCB DECAL
DIP22-400	DIP22-400	GEN\DIP22	GENERIC 22 PIN DUAL INLINE PACKAGE (DI W/.400 LEAD SPC
DIP24	DIP24-300	GEN\DIP24	GENERIC 24 PIN DUAL INLINE PACKAGE (DI PCB DECAL
DIP24-400	DIP24-400	GEN\DIP24	GENERIC 24 PIN DUAL INLINE PACKAGE W/.400 LEAD SPACING
DIP24-600	DIP24-600	GEN\DIP24	GENERIC 24 PIN DUAL INLINE PACKAGE W/.600 LEAD SPACING
DIP28-300	DIP28-300	GEN\DIP28	GENERIC 28 PIN DUAL INLINE PACKAGE W/.300 LEAD SPACING
DIP28-400	DIP28-400	GEN\DIP28	GENERIC 28 PIN DUAL INLINE PACKAGE W/.400 LEAD SPACING
DIP28-600	DIP28-600	GEN\DIP28	GENERIC 28 PIN DUAL INLINE PACKAGE W/.600 LEAD SPACING

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
DIP32-300	DIP32-300	GEN\DIP32	GENERIC 32 PIN DUAL INLINE PACKAGE W/.300 LEAD SPACING
DIP32-600	DIP32-600	GEN\DIP32	GENERIC 32 PIN DUAL INLINE PACKAGE W/.600 LEAD SPACING
DIP32-900	DIP32-900	GEN\DIP32	GENERIC 32 PIN DUAL INLINE PACKAGE W/.900 LEAD SPACING
DIP4(14)	DIP4(14)	GEN\DIP4	GENERIC 4 PIN DUAL INLINE PACK (OSCILLATOR TYPE)
DIP40-600	DIP40-600	GEN\DIP40	GENERIC 40 PIN DUAL INLINE PACKAGE W/.600 LEAD SPACING
DIP48-600	DIP48-600	GEN\DIP48	GENERIC 48 PIN DUAL INLINE PACKAGE W/.600 LEAD SPACING
DIP50-900	DIP50-900	GEN\DIP50	GENERIC 50 PIN DUAL INLINE PACKAGE W/.900 LEAD SPACING
DIP52-600	DIP52-600	GEN\DIP52	GENERIC 52 PIN DUAL INLINE PACKAGE W/.600 LEAD SPACING
DIP52-900	DIP52-900	GEN\DIP52	GENERIC 52 PIN DUAL INLINE PACKAGE W/.900 LEAD SPACING
DIP6	DIP6	GEN\DIP6	GENERIC 6 PIN DUAL INLINE PACKAGE .300 LEAD SPACING
DIP64-900	DIP64-900	GEN\DIP64	GENERIC 64 PIN DUAL INLINE PACKAGE W/.900 LEAD SPACING
DIP8	DIP8	GEN\DIP8	GENERIC 8 PIN DUAL INLINE PACKAGE (DIP) .300 SPACING
DPAK4	DPAK4		SURFACE MOUNT DIODE/TRANSISTOR PACKAGE
DPAK5	DPAK5		SURFACE MOUNT DIODE/TRANSISTOR PACKAGE
DPAK7	DPAK7		SURFACE MOUNT DIODE/TRANSISTOR PACKAGE
ELECTAA	ELECTAA		ELECTROLYTIC CAP., CASE SIZE 'AA'
ELECTBB	ELECTBB		ELECTROLYTIC CAP., CASE SIZE 'BB'
EMI2	EMI2		EMI FILTER 1.6 X 3.2 MM
EMI3	EMI3		EMI FILTER 2.0 X 5.0 MM; 8 PINS
EMI4	EMI4		EMI FILTER 2.0 X 5.0 MM; 12 PINS

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
EMI4030	EMI4030		EMI FERRITE 3.05 X 4.06 MM
EMI5630	EMI5630		EMI FERRITE 3.05 X 5.59 MM
EMI8045	EMI8045		EMI FERRITE 4.57 X 8.05 MM
EMI8530	EMI8530		EMI FERRITE 3.05 X 8.51 MM
FCX-1	FCX-1		SURFACE MOUNT CRYSTAL
HD-0603	HD-0603		HIGH DENSITY 0603 BODY FOR RESISTOR OR CAPACITOR
HD-0805	HD-0805		HIGH DENSITY 0805 BODY FOR RESISTOR OR CAPACITOR
HD-1206	HD-1206		HIGH DENSITY 1206 BODY FOR RESISTOR OR CAPACITOR
IND-0805	IND-0805		SURFACE MOUNT CHIP INDUCTOR 0.070 X 0.095
IND-1008	IND-1008		SURFACE MOUNT CHIP INDUCTOR 0.110 X 0.115
IND-1810	IND-1810		SURFACE MOUNT CHIP INDUCTOR 0.150 X 0.178
IND-EMI	IND-EMI		SURFACE MOUNT EMI INDUCTOR 0.195 X 0.3
IND1	IND1		SURFACE MOUNT INDUCTOR 0.080 X 0.110
IND10	IND10		SURFACE MOUNT INDUCTOR, FOUR LEAD, .510 X .300 SPACING
IND11	IND11		SURFACE MOUNT INDUCTOR, FOUR LEAD, .610 X .400 SPACING
IND12	IND12		SURFACE MOUNT INDUCTOR, FOUR LEAD, .710 X .500 SPACING
IND13	IND13		SURFACE MOUNT INDUCTOR, SIXTEEN LEAD, .335 CENTERS
IND14	IND14		SURFACE MOUNT INDUCTOR, FOUR LEAD .1 X .138 SPACING
IND2	IND2		SURFACE MOUNT INDUCTOR 0.103 X 0.135
IND3	IND3		SURFACE MOUNT INDUCTOR 0.103 X 0.105
IND4	IND4		SURFACE MOUNT INDUCTOR 0.155 X 0.125
IND5	IND5		SURFACE MOUNT INDUCTOR 0.167 X 0.125



**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
IND6	IND6		SURFACE MOUNT INDUCTOR 0.110 X 0.160
IND7	IND7		SURFACE MOUNT INDUCTOR 0.288 X 0.276
IND8	IND8		SURFACE MOUNT INDUCTOR 0.193 X 0.217
IND9	IND9		SURFACE MOUNT INDUCTOR, THREE LEAD
IV_VIRTUAL_PIN	IV_VIRTUAL_PIN		
LCC16	LCC16		16 PIN RECTANGULAR LEADLESS CHIP CARRIER
LCC18	LCC18		16 PIN RECTANGULAR LEADLESS CHIP CARRIER,JEDEC C-10A
LCC18ECA	LCC18ECA		18 PIN RECTANGULAR LEADLESS CHIP CARRIER,JEDEC ECA PK.
LCC18ECB	LCC18ECB		18 PIN RECTANGULAR LEADLESS CHIP CARRIER,JEDEC ECB PK.
LCC20	LCC20		20 PIN RECTANGULAR LEADLESS CHIP CARRIER,38510-C-13
LCC20ECD	LCC20ECD		20 PIN RECTANGULAR LEADLESS CHIP CARRIER,JEDEC ECD PK.
LCC20SQ	LCC20SQ		20 PIN SQUARE LEADLESS CHIP CARRIER,38510-C-2A
LCC22	LCC22		22 PIN RECTANGULAR LEADLESS CHIP CARRIER,JEDEC ECE PK.
LCC24	LCC24		24 PIN RECTANGULAR LEADLESS CHIP CARRIER
LCC24SQ	LCC24SQ		24 PIN SQUARE LEADLESS CHIP CARRIER
LCC28	LCC28		28 PIN RECTANGULAR LEADLESS CHIP CARRIER,38510-C-11A
LCC28SQ	LCC28SQ		28 PIN SQUARE LEADLESS CHIP CARRIER, 38510-C-4
LCC32	LCC32		32 PIN RECTANGULAR LEADLESS CHIP CARRIER,38510-C-12
LCC44SQ	LCC44SQ		44 PIN SQUARE LEADLESS CHIP CARRIER, 38510-C-5
LCC52SQ	LCC52SQ		52 PIN SQUARE LEADLESS CHIP CARRIER
LCC68SQ	LCC68SQ		68 PIN SQUARE LEADLESS CHIP CARRIER

Table 2-1. Common Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
LCC80	LCC80		80 PIN RECTANGULAR LEADLESS CHIP CARRIER
LCC84SQ	LCC84SQ		84 PIN SQUARE LEADLESS CHIP CARRIER
LCC94	LCC94		94 PIN SQUARE LEADLESS CHIP CARRIER
LCCC68	LCCC68		68 PIN J LEADED CERDIP CHIP CARRIER
LCCC84	LCCC84		84 PIN J LEADED CERDIP CHIP CARRIER
LED-1	LED-1		LED
MELF1	MELF1		SURFACE MOUNT MELF, 0.091 X 0.232
MELF2	MELF2		SURFACE MOUNT MELF, 0.049 X 0.078
MELF3	MELF3		SURFACE MOUNT MELF, 0.061 X 0.138
MICA1	MICA1		MICA TANTALUM CAPACITOR 5.69 X 10.9 MM
MLL34	MLL34		SURFACE MOUNT CAP/RES/DIODE, MELF (SOD-80)
MLL41	MLL41		SURFACE MOUNT CAP/RES/DIODE, MELF
MOIRE	MOIRE		TARGET
MTHOLE1	MTHOLE1		MOUNTING HOLE 100 MIL ROUND
MTHOLE2	MTHOLE2		MOUNTING HOLE 200 MIL ROUND
MTHOLE4	MTHOLE4		MOUNTING HOLE FOR #4 SCREW, 110 MIL ROUND
MTHOLE6	MTHOLE6		MOUNTING HOLE FOR #6 SCREW, 140 MIL ROUND
NEC-B	NEC-B		SURFACE MOUNT TANT. CAPACITOR, NEC T CASE SIZE
NEC-C	NEC-C		SURFACE MOUNT TANT. CAPACITOR, NEC C CASE SIZE
NEC-D	NEC-D		SURFACE MOUNT TANT. CAPACITOR, NEC D CASE SIZE
NL1210	NL1210		SURFACE MOUNT INDUCTOR 0.098 X 0.126
NL1812	NL1812		SURFACE MOUNT INDUCTOR 0.126 X 0.177
NL2216	NL2216		SURFACE MOUNT INDUCTOR 0.197 X 0.220
OSCDIP	OSCDIP		SURFACE MOUNT CRYSTAL
PFP16	PFP16		16 PIN FLAT PACKAGE

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
PFP18	PFP18		18 PIN FLAT PACKAGE
PFP20	PFP20		20 PIN FLAT PACKAGE
PGA-68P	PGA-68P	GEN\DIP68	68 Pin PCB Footprint
PGA-68PA	PGA-68PA	GEN\DIP68	68 Pin PCB Footprint
PGA-68PB	PGA-68PB	GEN\DIP68	68 PIN PCB FOOTPRINT
PGA-68PC	PGA-68PC	GEN\DIP68	68 Pin PCB Footprint
PGA-84P	PGA-84P	GEN\DIP84	84 Pin PCB Footprint
PGA-88P	PGA-88P	GEN\DIP88	88 Pin PCB Footprint
PIND	PIND		POWER INDUCTOR 5.2 MM DIA.
PLCC100	PLCC100		100 PIN PLASTIC LEADLESS CHIP CARRIER
PLCC128	PLCC128		128 PIN PLASTIC LEADLESS CHIP CARRIER
PLCC18	PLCC18		18 PIN RECTANGULAR PLASTIC LEADLESS CHIP CARRIER
PLCC18L	PLCC18L		18 PIN RECTANGULAR PLASTIC LEADLESS CHIP CARRIER, 0.233"
PLCC20SQ	PLCC20SQ		20 PIN SQUARE PLASTIC LEADLESS CHIP CARRIER
PLCC22R	PLCC22R		22 PIN RECTANGULAR PLASTIC LEADLESS CHIP CARRIER, 4X7
PLCC22R-2	PLCC22R-2		22 PIN RECTANGULAR PLASTIC LEADLESS CHIP CARRIER, 4X7
PLCC28R	PLCC28R		28 PIN RECTANGULAR PLASTIC LEADLESS CHIP CARRIER, 5X9
PLCC28SQ	PLCC28SQ		28 PIN SQUARE PLASTIC LEADLESS CHIP CARRIER
PLCC32R	PLCC32R		32 PIN RECTANGULAR PLASTIC LEADLESS CHIP CARRIER, 7X9
PLCC44	PLCC44		44 PIN PLASTIC LEADLESS CHIP CARRIER
PLCC52	PLCC52		52 PIN PLASTIC LEADLESS CHIP CARRIER
PLCC52-SKT	PLCC52-SKT		52 PIN PLCC SOCKET
PLCC68	PLCC68		68 PIN PLASTIC LEADLESS CHIP CARRIER
PLCC68-SKT	PLCC68-SKT		68 PIN PLCC SOCKET

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
PLCC84	PLCC84		84 PIN PLASTIC LEADLESS CHIP CARRIER
PLCC84-SKT	PLCC84-SKT		84 PIN PLCC SOCKET
PQFP100	PQFP100		100 PIN PQFP, 19.35 x 19.35 MM, PIN 1 UL
PQFP132	PQFP132		132 PIN PQFP, 24.40x 24.40 MM, PIN 1 UL
PQFP132M	PQFP132M		132 PIN PQFP, IN A MOLDED RING CARRIER, X 33 LEADS
PQFP164	PQFP164		164 PIN PQFP, 29.40x 29.40 MM, PIN 1 UL
PQFP196	PQFP196		196 PIN PQFP, 34.40x 34.40 MM, PIN 1 UL
PQFP244	PQFP244		244 PIN PQFP, 45.40x 45.40 MM, PIN 1 UL
PQFP68M	PQFP68M		68 PIN PQFP, IN A MOLDED RING CARRIER, X 17 LEADS
PQFP84	PQFP84		84 PIN PQFP, 16.80 x 16.80 MM, PIN 1 UL
PSOP44	PSOP44		44 PIN PSOP PLASTIC PACKAGE; 16.0 X 28.2 MM
QFJ100S	QFJ100S		100 PIN SQUARE QFJ PACKAGE, 25 PINS PER SIDE
QFJ18	QFJ18		18 PIN RECTANGULAR QFJ 4 X 5 LEAD PACKAGE
QFJ18L	QFJ18L		18 PIN RECTANGULAR QFJ 4 X 5 LEAD NARROW PACKAGE
QFJ20S	QFJ20S		20 PIN SQUARE QFJ PACKAGE, 5 PINS PER SIDE
QFJ22	QFJ22		22 PIN RECTANGULAR QFJ 4 X 7 LEAD PACKAGE
QFJ28R	QFJ28R		28 PIN RECTANGULAR QFJ 5 X 9 LEAD PACKAGE
QFJ28S	QFJ28S		28 PIN SQUARE QFJ PACKAGE, 7 PINS PER SIDE
QFJ44S	QFJ44S		44 PIN SQUARE QFJ PACKAGE, 11 PINS PER SIDE
QFJ52S	QFJ52S		52 PIN SQUARE QFJ PACKAGE, 13 PINS PER SIDE
QFJ68S	QFJ68S		68 PIN SQUARE QFJ PACKAGE, 17 PINS PER SIDE
QFJ84S	QFJ84S		84 PIN SQUARE QFJ PACKAGE, 21 PINS PER SIDE

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
QFP100-1	QFP100-1		100 PIN QUAD FLAT PACK, 20 X 30 LEADS
QFP100-2	QFP100-2		100 PIN QUAD FLAT PACK, 14.0 X 20.0 MM, 20 X 30 LEADS
QFP100-3	QFP100-3		100 PIN QUAD FLAT PACK, 14.0 X 20.0 MM, 20 X 30 LEADS
QFP100-4	QFP100-4		100 PIN QUAD FLAT PACK, 14.0 X 14.0 MM, 25 X 25 LEADS
QFP100-5	QFP100-5		100 PIN QUAD FLAT PACK, 20.7 X 26.67 MM, 20 X 30 LEADS
QFP108	QFP108		108 PIN QUAD FLAT PACK, 14.0 X 14.0 MM
QFP108-2	QFP108-2		108 PIN QUAD FLAT PACK, 12.0 X 12.0 MM
QFP108-3	QFP108-3		108 PIN QUAD FLAT PACK, 10.0 X 14.0 MM
QFP120	QFP120		120 PIN QUAD FLAT PACK, 32.0 X 32.0 MM, 30 X 30 LEADS
QFP120-2	QFP120-2		120 PIN QUAD FLAT PACK, 28.0 X 28.0 MM, 30 X 30 LEADS
QFP128	QFP128		128 PIN QUAD FLAT PACK, 28.0 X 28.0 MM, 32 X 32 LEADS
QFP128-2	QFP128-2		128 PIN QUAD FLAT PACK, 28.0 X 28.0 MM, 32 X 32 LEADS
QFP128-3	QFP128-3		128 PIN QUAD FLAT PACK, 14.0 X 14.0 MM
QFP128-4	QFP128-4		128 PIN QUAD FLAT PACK, 14.0 X 20.0 MM
QFP136	QFP136		136 PIN QUAD FLAT PACK, 28.0 X 28.0 MM, 34 X 34 LEADS
QFP144	QFP144		144 PIN QUAD FLAT PACK, 28.0 X 28.0 MM, 36 X 36 LEADS
QFP144-2	QFP144-2		144 PIN QUAD FLAT PACK, 28.0 X 28.0 MM, 36 X 36 LEADS
QFP144-3	QFP144-3		144 PIN QUAD FLAT PACK, 20.0 X 20.0 MM, 36 X 36 LEADS
QFP152	QFP152		152 PIN QUAD FLAT PACK, 20.0 X 20.0 MM
QFP160	QFP160		160 PIN QUAD FLAT PACK, 28.0 X 28.0 MM, 40 X 40 LEADS
QFP160-2	QFP160-2		160 PIN QUAD FLAT PACK, 28.0 X 28.0 MM, 40 X 40 LEADS

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
QFP160-3	QFP160-3		160 PIN QUAD FLAT PACK, 14.0 X 20.0 MM
QFP168	QFP168		168 PIN QUAD FLAT PACK, 28.0 X 28.0 MM
QFP176	QFP176		176 PIN QUAD FLAT PACK, 24.0 X 24.0 MM
QFP184	QFP184		184 PIN QUAD FLAT PACK, 24.0 X 24.0 MM
QFP184-2	QFP184-2		184 PIN QUAD FLAT PACK, 20.0 X 28.0 MM
QFP184-3	QFP184-3		184 PIN QUAD FLAT PACK, 31.3 MM X 31.3 MM
QFP184-4	QFP184-4		184 PIN QUAD FLAT PACK, 28.0 MM X 28.0 MM
QFP192	QFP192		192 PIN QUAD FLAT PACK, 20.0 X 20.0 MM
QFP196	QFP196		196 PIN QUAD FLAT PACK, 32.5 X 32.5 MM, 49 LEADS
QFP208-1	QFP208-1		208 PIN QUAD FLAT PACK, 29.0 X 29.0 MM, 52 LEADS
QFP208-2	QFP208-2		208 PIN QUAD FLAT PACK, 29.0 X 29.0 MM, 52 LEADS
QFP208-3	QFP208-3		208 PIN QUAD FLAT PACK, 29.0 X 29.0 MM, 52 LEADS
QFP208-4	QFP208-4		208 PIN QUAD FLAT PACK, 28.0 X 28.0 MM, 52 LEADS
QFP208-5	QFP208-5		208 PIN QUAD FLAT PACK, 31.9 X 31.9 MM, 52 LEADS
QFP216	QFP216		216 PIN QUAD FLAT PACK, 28.0 X 28.0 MM
QFP232	QFP232		232 PIN QUAD FLAT PACK, 24.0 X 24.0 MM
QFP232-2	QFP232-2		232 PIN QUAD FLAT PACK, 20.0 X 28.0 MM
QFP240	QFP240		240 PIN QUAD FLAT PACK, 32.0 X 32.0 MM
QFP248	QFP248		248 PIN QUAD FLAT PACK, 32.0 X 32.0 MM
QFP264	QFP264		264 PIN QUAD FLAT PACK, 28.0 X 40.0 MM
QFP272	QFP272		272 PIN QUAD FLAT PACK, 28.0 X 28.0 MM
QFP280	QFP280		280 PIN QUAD FLAT PACK, 36.0 X 36.0 MM
QFP312	QFP312		312 PIN QUAD FLAT PACK, 40.0 X 40.0 MM
QFP312-2	QFP312-2		312 PIN QUAD FLAT PACK, 32.0 X 32.0 MM
QFP32	QFP32		32 PIN QUAD FLAT PACK, 7.0 X 7.0 MM
QFP32-2	QFP32-2		32 PIN QUAD FLAT PACK, 8.01 X 8.01 MM

Table 2-1. Common Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
QFP332	QFP332		332 PIN QUAD FLAT PACK, 28.0 X 40.0 MM
QFP344	QFP344		344 PIN QUAD FLAT PACK, 44.0 X 44.0 MM
QFP352	QFP352		352 PIN QUAD FLAT PACK, 36.0 X 36.0 MM
QFP392	QFP392		392 PIN QUAD FLAT PACK, 40.0 X 40.0 MM
QFP40	QFP40		40 PIN QUAD FLAT PACK, 6.0 X 6.0 MM
QFP40-2	QFP40-2		40 PIN QUAD FLAT PACK, 5.0 X 5.0 MM
QFP40-3	QFP40-3		40 PIN QUAD FLAT PACK, 5.0 X 7.0 MM
QFP432	QFP432		432 PIN QUAD FLAT PACK, 44.0 X 44.0 MM
QFP44-1	QFP44-1		44 PIN QUAD FLAT PACK, 13.5 X 14.5 MM
QFP44-2	QFP44-2		44 PIN QUAD FLAT PACK, 12.3 X 12.3 MM
QFP44-3	QFP44-3		44 PIN QUAD FLAT PACK, 14.4 X 14.4 MM
QFP44-4	QFP44-4		44 PIN QUAD FLAT PACK, 10.0 X 10.0 MM
QFP44-5	QFP44-5		44 PIN QUAD FLAT PACK, 10.0 X 10.0 MM
QFP44-6	QFP44-6		44 PIN QUAD FLAT PACK, 10.0 X 10.0 MM
QFP44-7	QFP44-7		44 PIN QUAD FLAT PACK, 18.29 X 18.29 MM
QFP48	QFP48		48 PIN QUAD FLAT PACK, 17.3 X 17.3 MM
QFP48-2	QFP48-2		48 PIN QUAD FLAT PACK, 12.0 X 12.0 MM
QFP48-3	QFP48-3		48 PIN QUAD FLAT PACK, 7.0 X 7.0 MM
QFP48-4	QFP48-4		48 PIN QUAD FLAT PACK, 6.0 X 6.0 MM
QFP52	QFP52		52 PIN QUAD FLAT PACK, 21.3 X 21.3 MM
QFP52-2	QFP52-2		52 PIN QUAD FLAT PACK, 10.0 X 10.0 MM
QFP52-3	QFP52-3		52 PIN QUAD FLAT PACK, 10.0 X 10.0 MM
QFP52-4	QFP52-4		52 PIN QUAD FLAT PACK, 5.0 X 7.0 MM
QFP52-5	QFP52-5		52 PIN QUAD FLAT PACK, 10.0 X 10.0 MM
QFP54	QFP54		54 PIN QUAD FLAT PACK, 14.4 X 14.4 MM
QFP56-1	QFP56-1		56 PIN QUAD FLAT PACK, 13.5 X 14.5 MM
QFP56-2	QFP56-2		56 PIN QUAD FLAT PACK, 24.0 X 20.0 MM
QFP60	QFP60		60 PIN QUAD FLAT PACK, 24.0 X 20.0 MM
QFP60-2	QFP60-2		60 PIN QUAD FLAT PACK, 19.3 X 19.3 MM
QFP60-3	QFP60-3		60 PIN QUAD FLAT PACK, 7.0 X 10.0 MM

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
QFP64-1	QFP64-1		64 PIN QUAD FLAT PACK, 17.6 X 17.6 MM, 16 LEADS/SIDE
QFP64-2	QFP64-2		64 PIN QUAD FLAT PACK, 17.6 X 17.6 MM, 13 19 LEADS
QFP64-3	QFP64-3		64 PIN QUAD FLAT PACK, 18.4 X 18.4 MM, 16 LEADS/SIDE
QFP64-4	QFP64-4		64 PIN QUAD FLAT PACK, 18.7 X 24.7 MM, 13 19 LEADS
QFP64-5	QFP64-5		64 PIN QUAD FLAT PACK, 22.8 X 22.8 MM, 16 LEADS/SIDE
QFP64-6	QFP64-6		64 PIN QUAD FLAT PACK, 14.0 X 14.0 MM, 16 LEADS/SIDE
QFP64-7	QFP64-7		64 PIN QUAD FLAT PACK, 14.0 X 14.0 MM, 16 LEADS/SIDE
QFP64-8	QFP64-8		64 PIN QUAD FLAT PACK, 14.0 X 20.0 MM, 13 19 LEADS
QFP64-9	QFP64-9		64 PIN QUAD FLAT PACK, 7.0 X 7.0 MM
QFP70	QFP70		70 PIN QUAD FLAT PACK, 16.4 X 28.6 MM, 11 24 LEADS
QFP72	QFP72		72 PIN QUAD FLAT PACK, 10.0 X 10.0 MM
QFP74	QFP74		74 PIN QUAD FLAT PACK, 23.2 X 23.2 MM, 18 19 LEADS
QFP76	QFP76		76 PIN QUAD FLAT PACK, 7.0 X 10.0 MM
QFP80-1	QFP80-1		80 PIN QUAD FLAT PACK, 14.0 X 14.0 MM
QFP80-2	QFP80-2		80 PIN QUAD FLAT PACK, 14.0 X 20.0 MM, 16 24 LEADS
QFP80-3	QFP80-3		80 PIN QUAD FLAT PACK, 14.0 X 20.0 MM, 16 24 LEADS
QFP80-4	QFP80-4		80 PIN QUAD FLAT PACK, 16.4 X 28.6 MM, 16 24 LEADS
QFP80-5	QFP80-5		80 PIN QUAD FLAT PACK, 14.0 X 14.0 MM, 20 20 LEADS
QFP80-6	QFP80-6		80 PIN QUAD FLAT PACK, 14.0 X 20.0 MM, 16 24 LEADS



**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
QFP80-7	QFP80-7		80 PIN QUAD FLAT PACK, 14.0 X 20.0 MM, 16 24 LEADS
QFP80-8	QFP80-8		80 PIN QUAD FLAT PACK, 12.0 X 12.0 MM, 20 20 LEADS
QFP88	QFP88		88 PIN QUAD FLAT PACK, 14.0 X 20.0 MM, 18 26 LEADS
QFP88-2	QFP88-2		88 PIN QUAD FLAT PACK, 12.0 X 12.0 MM
QFP88-3	QFP88-3		88 PIN QUAD FLAT PACK, 10.0 X 10.0 MM
QFP88-4	QFP88-4		88 PIN QUAD FLAT PACK, 10.0 X 14.0 MM
QFP94	QFP94		94 PIN QUAD FLAT PACK, 23.2 X 23.2 MM, 23 24 LEADS
QSOP20	QSOP20		20 PIN QSOP PLASTIC PACKAGE
QSOP24	QSOP24		24 PIN QSOP PLASTIC PACKAGE
QSOP28	QSOP28		28 PIN QSOP PLASTIC PACKAGE
RESN1	RESN1		SURFACE MOUNT CERAMIC RESONATOR 3.4 7.4 MM
RN15	RN15		SURFACE MOUNT 15 RESISTOR NETWORK
RN2	RN2		SURFACE MOUNT 2 RESISTOR NETWORK
RN2-2	RN2-2		SURFACE MOUNT 2 RESISTOR NETWORK
RN4	RN4		SURFACE MOUNT 4 RESISTOR NETWORK
RN4-2	RN4-2		SURFACE MOUNT 4 RESISTOR NETWORK
RN8	RN8		SURFACE MOUNT 8 RESISTOR NETWORK
RS030	RS030		SURFACE MOUNT RESISTOR SWITCH 5.4 X 7 MM
RS150	RS150		SURFACE MOUNT RESISTOR SWITCH 6.6 X 8 MM
SIP-10P	SIP-10P		GENERIC 10 PIN SIP .100 CENTERS
SIP-11P	SIP-11P		GENERIC 11 PIN SIP .100 CENTERS
SIP-12P	SIP-12P		GENERIC 12 PIN SIP .100 CENTERS
SIP-13P	SIP-13P		GENERIC 13 PIN SIP .100 CENTERS
SIP-14P	SIP-14P		GENERIC 14 PIN SIP .100 CENTERS
SIP-15P	SIP-15P		GENERIC 15 PIN SIP .100 CENTERS

Table 2-1. Common Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
SIP-16P	SIP-16P		GENERIC 16 PIN SIP .100 CENTERS
SIP-17P	SIP-17P		GENERIC 17 PIN SIP .100 CENTERS
SIP-18P	SIP-18P		GENERIC 18 PIN SIP .100 CENTERS
SIP-19P	SIP-19P		GENERIC 19 PIN SIP .100 CENTERS
SIP-1P	SIP-1P		GENERIC 1 PIN PROBE
SIP-20P	SIP-20P		GENERIC 20 PIN SIP .100 CENTERS
SIP-2P	SIP-2P		GENERIC 2 PIN SIP .100 CENTERS
SIP-3P	SIP-3P		GENERIC 3 PIN SIP .100 CENTERS
SIP-4P	SIP-4P		GENERIC 4 PIN SIP .100 CENTERS
SIP-5P	SIP-5P		GENERIC 5 PIN SIP .100 CENTERS
SIP-6P	SIP-6P		GENERIC 6 PIN SIP .100 CENTERS
SIP-7P	SIP-7P		GENERIC 7 PIN SIP .100 CENTERS
SIP-8P	SIP-8P		GENERIC 8 PIN SIP .100 CENTERS
SIP-8P-156	SIP-8P-156		GENERIC 8 PIN SIP .100 CENTERS
SIP-9P	SIP-9P		GENERIC 9 PIN SIP .100 CENTERS
SMB	SMB		DIODE RECTIFIER, SMB
SMC	SMC		DIODE RECTIFIER, SMC
SO14	SO14NB:SO14MB: SO14WB	GEN\DIP14	GENERIC 14 PIN SMT
SO14M1	SO14M1		14 PIN PLASTIC MINIFLAT PACKAGE
SO14M2	SO14M2		14 PIN PLASTIC MINIFLAT PACKAGE, 0.276"
SO14MB	SO14MB		14 PIN MEDIUM BODY RESISTOR PACK
SO14MM	SO14M1:SO14M2	GEN\DIP14	GENERIC 14 PIN SMT METRIC
SO14NB	SO14NB		14 PIN NARROW BODY SOIC
SO14NBWS	SO14NBWS		SO14NB BODY OPTIMIZED FOR WAVE SOLDER
SO14WB	SO14WB		14 PIN WIDE BODY SOIC
SO16	SO16NB:SO16MB: SO16WB	GEN\DIP16	GENERIC 16 PIN SMT
SO16M1	SO16M1		16 PIN PLASTIC MINIFLAT PACKAGE
SO16MB	SO16MB		16 PIN MEDIUM BODY RESISTOR PACK

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
SO16MM	SO16M1	GEN\DIP16	GENERIC 16 PIN SMT METRIC
SO16NB	SO16NB		16 PIN NARROW BODY SOIC
SO16NBWS	SO16NBWS		SO16NB BODY OPTIMIZED FOR WAVE SOLDER
SO16WB	SO16WB		16 PIN WIDE BODY SOIC
SO18	SO18WB	GEN\DIP18	GENERIC 18 PIN SMT
SO18WB	SO18WB		18 PIN WIDE BODY SOIC
SO20	SO20WB	GEN\DIP20	GENERIC 20 PIN SMT
SO20M1	SO20M1		20 PIN PLASTIC MINIFLAT PACKAGE
SO20M2	SO20M2		20 PIN PLASTIC MINIFLAT PACKAGE, 0.386"
SO20M3	SO20M3		20 PIN PLASTIC MINIFLAT PACKAGE, 0.401"
SO20MM	SO20M1:SO20M2: SO20M3	GEN\DIP20	GENERIC 20 PIN SMT METRIC
SO20WB	SO20WB		20 PIN WIDE BODY SOIC
SO24	SO24WB	GEN\DIP24	GENERIC 24 PIN SMT
SO24M1	SO24M1		24 PIN PLASTIC MINIFLAT PACKAGE
SO24M2	SO24M2		24 PIN PLASTIC MINIFLAT PACKAGE, 0.451"
SO24M3	SO24M3		24 PIN PLASTIC MINIFLAT PACKAGE, 0.376"
SO24MM	SO24M1:SO24M2: SO24M3	GEN\DIP24	GENERIC 24 PIN SMT METRIC
SO24U	SO24U	GEN\DIP24	24 PIN UNIVERSAL SMT SRAM
SO24WB	SO24WB		24 PIN WIDE BODY SOIC
SO28	SO28WB: SO28WB-2	GEN\DIP28	GENERIC 28 PIN SMT
SO28M1	SO28M1		28 PIN PLASTIC MINIFLAT PACKAGE
SO28M2	SO28M2		28 PIN PLASTIC MINIFLAT PACKAGE, 0.431"
SO28M3	SO28M3		28 PIN PLASTIC MINIFLAT PACKAGE, 0.446"
SO28MM	SO28M1:SO28M2: SO28M3	GEN\DIP28	GENERIC 28 PIN SMT METRIC
SO28U	SO28U	GEN\DIP28	28 PIN UNIVERSAL SRAM
SO28WB	SO28WB		28 PIN WIDE BODY SOIC

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
SO28WB-2	SO28WB-2		28 PIN WIDE BODY SOIC, 0.330"
SO32	SO32WB-1: SO32WB-2	GEN\DIP32	GENERIC 32 PIN SMT
SO32M1	SO32M1		32 PIN PLASTIC MINIFLAT PACKAGE
SO32MM	SO32M1	GEN\DIP32	GENERIC 32 PIN SMT METRIC
SO32WB-1	SO32WB-1		32 PIN WIDE BODY SOIC, 0.350"
SO32WB-2	SO32WB-2		32 PIN WIDE BODY SOIC, 0.440"
SO40M1	SO40M1		40 PIN PLASTIC MINIFLAT PACKAGE
SO40MM	SO40M1	GEN\DIP40	GENERIC 40 PIN SMT METRIC
SO4M1	SO4M1		4 PIN METRIC BODY SOIC
SO4MM	SO4M1	GEN\DIP4	GENERIC 4 PIN SMT METRIC
SO6M1	SO6M1		6 PIN METRIC BODY SOIC
SO6MM	SO6M1	GEN\DIP6	GENERIC 6 PIN SMT METRIC
SO8	SO8NB:SO8WB: SO8-OPT	GEN\DIP8	GENERIC 8 PIN SMT
SO8-OPT	SO8-OPT		8 PIN OPTO COUPLER SOIC
SO8M1	SO8M1		8 PIN METRIC BODY SOIC
SO8M2	SO8M2		8 PIN METRIC BODY SOIC
SO8MM	SO8M1:SO8M2	GEN\DIP8	GENERIC 8 PIN SMT METRIC
SO8NB	SO8NB		8 PIN NARROW BODY SOIC
SO8NBWS	SO8NBWS		SO8NB BODY OPTIMIZED FOR WAVE SOLDE
SO8WB	SO8WB		8 PIN WIDE BODY SOIC
SOC-1	SOC-1		SURFACE MOUNT CRYSTAL
SOC-2	SOC-2		SURFACE MOUNT CRYSTAL
SOC-3	SOC-3		SURFACE MOUNT CRYSTAL 3.5 X 9.1 MM
SOC-4	SOC-4		SURFACE MOUNT CRYSTAL 3.7 X 8.76 MM
SOCKET28	SOCKET28		28 PIN SQUARE SOCKET
SOCKET32	SOCKET32		32 PIN RECTANGULAR SOCKET
SOCKET44	SOCKET44		44 PIN SQUARE SOCKET
SOCKET52	SOCKET52		52 PIN SQUARE SOCKET

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
SOCKET68	SOCKET68		68 PIN SQUARE SOCKET
SOCKET84	SOCKET84		84 PIN SQUARE SOCKET
SOD-123	SOD-123		SMALL OUTLINE DIODE, 3.6 X 1.55 MM
SOD87	SOD87		SURFACE MOUNT MELF, 0.063 X 0.138 (SOD-87)
SOJ14	SOJ14		14 PIN SOJ PLASTIC PACKAGE
SOJ16	SOJ16		16 PIN SOJ PLASTIC PACKAGE
SOJ18	SOJ18		18 PIN SOJ PLASTIC PACKAGE
SOJ20	SOJ20		20 PIN SOJ PLASTIC PACKAGE
SOJ20LM	SOJ20LM		20 PIN SOJ LEAD MOLDED
SOJ22	SOJ22		22 PIN SOJ PLASTIC PACKAGE
SOJ24	SOJ24		24 PIN SOJ PLASTIC PACKAGE
SOJ24LM	SOJ24LM		24 PIN SOJ LEAD MOLDED
SOJ24S	SOJ24S		24 PIN SOJ PLASTIC PACKAGE; 300 MIL WIDTH
SOJ26/20	SOJ26/20		26 PIN/20 CONTACT SOJ PLASTIC PACKAGE
SOJ26/20-2	SOJ26/20-2		26 PIN/20 CONTACT SOJ PLASTIC PACKAGE, 0.350"
SOJ26/24	SOJ26/24		26 PIN/24 CONTACT SOJ PLASTIC PACKAGE
SOJ26S	SOJ26S		26 PIN SOJ PLASTIC PACKAGE; 300 MIL WIDTH
SOJ28	SOJ28		28 PIN SOJ PLASTIC PACKAGE
SOJ28-2	SOJ28-2		28 PIN SOJ PLASTIC PACKAGE, 0.391"
SOJ28-24	SOJ28-24		28 PIN/24 CONTACT SOJ PLASTIC PACKAGE
SOJ28-3	SOJ28-3		28 PIN SOJ PLASTIC PACKAGE, 0.440"
SOJ28-4	SOJ28-4		28 PIN SOJ PLASTIC PACKAGE
SOJ28LM	SOJ28LM		28 PIN SOJ LEAD MOLDED
SOJ28NS	SOJ28NS		28 PIN SOJ PLASTIC PACKAGE; 300 MIL WIDTH
SOJ28S	SOJ28S		28 PIN SOJ PLASTIC PACKAGE; 400 MIL WIDTH
SOJ32-1	SOJ32-1		32 PIN SOJ PLASTIC PACKAGE, 0.300"
SOJ32-2	SOJ32-2		32 PIN SOJ PLASTIC PACKAGE, 0.400"
SOJ32S	SOJ32S		32 PIN SOJ PLASTIC PACKAGE; 400 MIL WIDTH
SOJ40	SOJ40		40 PIN SOJ PLASTIC PACKAGE, 0.420"

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
SOJ40-2	SOJ40-2		40 PIN SOJ PLASTIC PACKAGE, 0.465 WIDE
SOJ40S	SOJ40S		40 PIN SOJ PLASTIC PACKAGE; 400 MIL WIDT
SOJ42S	SOJ42S		42 PIN SOJ PLASTIC PACKAGE, 400 MIL WIDT
SOP24	SOP24		24 PIN PLASTIC FLAT PACKAGE
SOP28	SOP28		28 PIN PLASTIC FLAT PACKAGE
SOP32	SOP32		32 PIN PLASTIC FLAT PACKAGE
SOP32-2	SOP32-2		32 PIN SOP PACKAGE
SOP44	SOP44		44 PIN SOP PACKAGE; 16.0 X 28.2 MM
SOP48	SOP48		48 PIN SOP PACKAGE
SOP56	SOP56		56 PIN SOP PACKAGE
SOP8	SOP8		8 PIN PLASTIC FLAT PACKAGE
SOT-D	SOT-D		DIODE PACK
SOT-T	SOT-T		DIODE, TWO TERMINAL GULL WING
SOT-T2	SOT-T2		DIODE, TWO TERMINAL GULL WING
SOT-T3	SOT-T3		DIODE, TWO TERMINAL GULL WING
SOT143	SOT143		SOT143
SOT143-2	SOT143-2		SOT143-2
SOT223	SOT223		SOT223
SOT23	SOT23		JEDEC PACKAGE TO-236AA
SOT23M1	SOT23M1		SOT23 (METRIC)
SOT23M2	SOT23M2		SOT23 (METRIC)
SOT23M3	SOT23M3		SOT23 (METRIC)
SOT23M4	SOT23M4		SOT23 (METRIC)
SOT23M5	SOT23M5		SOT23 (METRIC)
SOT23WS	SOT23WS		SOT23 BODY OPTIMIZED FOR WAVE SOLDE
SOT25	SOT25		SOT25
SOT25-2	SOT25-2		SOT25 (5 LEADS)
SOT25-3	SOT25-3		SOT25 (6 LEADS)
SOT25-4	SOT25-4		SOT25 (6 LEADS)
SOT36	SOT36		SIX LEAD JEDEC PACKAGE

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
SOT89	SOT89		JEDEC PACKAGE TO-243
SRN10	SRN10		SIP RESISTOR NETWORK; 10 PINS, 2.2 X 7.08 MM
SRN12	SRN12		SIP RESISTOR NETWORK; 12 PINS, 2.2 X 8.35 MM
SRN16	SRN16		SIP RESISTOR NETWORK; 16 PINS, 2.2 X 10.89 MM
SRN18	SRN18		SIP RESISTOR NETWORK; 18 PINS, 2.2 X 12.16 MM
SRN20	SRN20		SIP RESISTOR NETWORK; 18 PINS, 2.2 X 13.43 MM
SSOP16	SSOP16		16 PIN SSOP PLASTIC PACKAGE; 5.99 X 4.83 MM
SSOP20	SSOP20		20 PIN SSOP PLASTIC PACKAGE; 10.36 X 12.8 MM
SSOP20-2	SSOP20-2		20 PIN SSOP PLASTIC PACKAGE; 6.4 X 7.0 MM
SSOP20-3	SSOP20-3		20 PIN SSOP PLASTIC PACKAGE; 5.99 X 8.64 MM
SSOP24	SSOP24		24 PIN SSOP PLASTIC PACKAGE; 5.99 X 8.64 MM
SSOP28	SSOP28		28 PIN SSOP PLASTIC PACKAGE; 7.77 X 10.2 MM
SSOP36	SSOP36		36 PIN SSOP PLASTIC PACKAGE; 11.9 X 18.7 MM
SSOP48	SSOP48		48 PIN SSOP PLASTIC PACKAGE
SSOP5	SSOP5		5 PIN SSOP PLASTIC PACKAGE; 2.8 X 2.9 MM
SSOP5-2	SSOP5-2		5 PIN SSOP PLASTIC PACKAGE; 2.1 X 2.0 MM
SSOP56	SSOP56		56 PIN SSOP PLASTIC PACKAGE
SSOP64	SSOP64		64 PIN SSOP PLASTIC PACKAGE; 14.25 X 26.7 MM
SW-G10P	SW-G10P		SURFACE MOUNT 10 POS. GULLWING SWITCH
SW-G12P	SW-G12P		SURFACE MOUNT 12 POS. GULLWING SWITCH
SW-G4P	SW-G4P		SURFACE MOUNT 4 POS. GULLWING SWITCH
SW-G5P	SW-G5P		SURFACE MOUNT 5 POS. GULLWING SWITCH

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
SW-G6P	SW-G6P		SURFACE MOUNT 6 POS. GULLWING SWITCH
SW-G7P	SW-G7P		SURFACE MOUNT 7 POS. GULLWING SWITCH
SW-G8P	SW-G8P		SURFACE MOUNT 8 POS. GULLWING SWITCH
SW-G9P	SW-G9P		SURFACE MOUNT 9 POS. GULLWING SWITCH
SW-J10P	SW-J10P		SURFACE MOUNT 10 POS. J LEADED SWITCH
SW-J12P	SW-J12P		SURFACE MOUNT 12 POS. J LEADED SWITCH
SW-J4P	SW-J4P		SURFACE MOUNT 4 POS. J LEADED SWITCH
SW-J5P	SW-J5P		SURFACE MOUNT 5 POS. J LEADED SWITCH
SW-J6P	SW-J6P		SURFACE MOUNT 6 POS. J LEADED SWITCH
SW-J7P	SW-J7P		SURFACE MOUNT 7 POS. J LEADED SWITCH
SW-J8P	SW-J8P		SURFACE MOUNT 8 POS. J LEADED SWITCH
SW-J8P-2	SW-J8P-2		SURFACE MOUNT 8 POS. J LEADED SWITCH
SW-J9P	SW-J9P		SURFACE MOUNT 9 POS. J LEADED SWITCH
SWBC1	SWBC1		SURFACE MOUNT BINARY CODED SWITCH 9.91 X 12.7 MM
TO-100	TO-100		
TO-18	TO-18		
TO-220	TO-220		
TO-220-UP	TO-220-UP		
TO-220-UP-4P	TO-220-UP-4P		
TO-3	TO-3		
TO-39	TO-39		
TO-5	TO-5		
TO-71	TO-71		
TO-72	TO-72		
TO-78	TO-78		
TO-8	TO-8		
TO-92	TO-92		
TO-99	TO-99		
TQFP100	TQFP100		100 PIN TQFP PACKAGE, 25 LEADS PER SIDE



**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
TQFP120	TQFP120		120 PIN TQFP PACKAGE, 30 LEADS PER SIDE
TQFP128	TQFP128		128 PIN TQFP PACKAGE, 32 LEADS PER SIDE
TQFP144	TQFP144		144 PIN TQFP PACKAGE, 36 LEADS PER SIDE
TQFP160	TQFP160		160 PIN TQFP PACKAGE, 40 LEADS PER SIDE
TQFP44	TQFP44		44 PIN TQFP PACKAGE, 11 LEADS PER SIDE
TQFP52	TQFP52		52 PIN TQFP PACKAGE, 13 LEADS PER SIDE
TQFP64	TQFP64		64 PIN TQFP PACKAGE, 16 LEADS PER SIDE
TQFP80	TQFP80		80 PIN TQFP PACKAGE, 20 LEADS PER SIDE
TRIM1	TRIM1		SURFACE MOUNT TRIMMER, TWO LEADED ADJUSTABLE
TRIM10	TRIM10		SURFACE MOUNT TRIMMER, THREE LEADED ADJUSTABLE
TRIM11	TRIM11		SURFACE MOUNT TRIMMER, THREE LEADED ADJUSTABLE
TRIM12	TRIM12		SURFACE MOUNT TRIMMER, THREE LEADED ADJUSTABLE
TRIM13	TRIM13		SURFACE MOUNT TRIMMER, THREE LEADED ADJUSTABLE
TRIM14	TRIM14		SURFACE MOUNT TRIMMER, THREE LEADED SIDE ADJUSTABLE
TRIM15	TRIM15		SURFACE MOUNT TRIMMER, THREE LEADED SIDE ADJUSTABLE
TRIM16	TRIM16		SURFACE MOUNT TRIMMER, THREE LEADED SIDE ADJUSTABLE
TRIM17	TRIM17		SURFACE MOUNT TRIMMER RES. 3 J LEADS SINGLE TURN
TRIM18	TRIM18		SURFACE MOUNT TRIMMER RES. 3 GULLWING LEADS, SINGLE TURN
TRIM19	TRIM19		SURFACE MOUNT TRIMMER CAP. 2 LEADS, SINGLE TURN
TRIM2	TRIM2		SURFACE MOUNT TRIMMER, TWO LEADED ADJUSTABLE
TRIM20	TRIM20		SURFACE MOUNT TRIMMER 3 LEADED ADJUSTABLE

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
TRIM3	TRIM3		SURFACE MOUNT TRIMMER, TWO LEADED ADJUSTABLE
TRIM4	TRIM4		SURFACE MOUNT TRIMMER, TWO LEADED ADJUSTABLE
TRIM5	TRIM5		SURFACE MOUNT TRIMMER, TWO LEADED ADJUSTABLE
TRIM6	TRIM6		SURFACE MOUNT TRIMMER, THREE LEADED ADJUSTABLE
TRIM7	TRIM7		SURFACE MOUNT TRIMMER, THREE LEADED ADJUSTABLE
TRIM8	TRIM8		SURFACE MOUNT TRIMMER, THREE LEADED ADJUSTABLE
TRIM9	TRIM9		SURFACE MOUNT TRIMMER, THREE LEADED ADJUSTABLE
TSOP-16	TSOP-16		16 PIN TSOP PACKAGE
TSOP-20	TSOP-20		20 PIN TSOP PACKAGE
TSOP-20-2	TSOP-20-2		20 PIN TSOP PACKAGE; 6.4 X 6.5 MM
TSOP-22	TSOP-22		22 PIN TSOP PACKAGE
TSOP-24	TSOP-24		24 PIN TSOP PACKAGE
TSOP-24-2	TSOP-24-2		24 PIN TSOP PACKAGE
TSOP-24-3	TSOP-24-3		24 PIN TSOP PACKAGE
TSOP-24-4	TSOP-24-4		24 PIN TSOP PACKAGE; 11.76 X 18.8 MM
TSOP-28	TSOP-28		28 PIN TSOP PACKAGE
TSOP-28-2	TSOP-28-2		28 PIN TSOP PACKAGE
TSOP-28-3	TSOP-28-3		28 PIN TSOP PACKAGE
TSOP-28-4	TSOP-28-4		28 PIN TSOP PACKAGE; 11.76 X 18.8 MM
TSOP-32-1	TSOP-32-1		32 PIN TSOP PACKAGE
TSOP-32-2	TSOP-32-2		32 PIN TSOP PACKAGE
TSOP-32-3	TSOP-32-3		32 PIN TSOP PACKAGE
TSOP-36	TSOP36		36 PIN TSOP PACKAGE
TSOP-36-2	TSOP36-2		36 PIN TSOP PACKAGE
TSOP-40	TSOP-40		40 PIN TSOP PACKAGE

**Table 2-1. Common Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
TSOP-40-1	TSOP-40-1		40 PIN TSOP PACKAGE; 14.0 X 10.0 MM
TSOP-40-2	TSOP-40-2		40 PIN TSOP PACKAGE
TSOP-40-3	TSOP-40-3		40 PIN TSOP PACKAGE
TSOP-44	TSOP44		44 PIN TSOP PACKAGE
TSOP-48	TSOP-48		48 PIN TSOP PACKAGE; 8.1 X 12.5 MM
TSOP-56	TSOP-56		56 PIN TSOP PACKAGE; 8.1 X 14.0 MM
VSO40	VSO40		40 PIN PLASTIC VSO PACKAGE
VSO48	VSO48		48 PIN PLASTIC VSO PACKAGE
VSO56	VSO56		56 PIN PLASTIC VSO PACKAGE
WR1	WR1		WIRE WOUND RESISTOR 3.4 X 7.05 MM
WR2	WR2		WIRE WOUND RESISTOR 5.9 X 12.07 MM
WR3	WR3		WIRE WOUND RESISTOR 6.3 X 15.25 MM



## Chapter 3

# AMD Library

The following table lists all the part types in the amd sample library. This listing is based on the part types and lists any associated PCB Decals and Logic Decals. The associated PCB and/or Logic decals are not necessarily sourced from the same library as the part type.

**Table 3-1. AMD Library Part Types**

Part Type	PCB Decals	Logic Decals	Description
AM100415	DIP16	100415	1024 X 1 IMOX II ECL BIPOLAR RAM
AM100469	DIP24-400	100469	512 X 9 ECL TAG BUFFER
AM100470	DIP18	100470	4096 X 1 IMOX ECL BIPOLAR RAM
AM100474	DIP24-400	100474	1024 X 4 IMOX ECL BIPOLAR RAM
AM100480	DIP20	100480	16,384 X 1 IMOX ECL BIPOLAR RAM
AM100P14	DIP20	100P14	4,096-BIT (1024 X 4) ECL BIPOLAR PROM
AM100P44	DIP20	100P44	16,384-BIT (4096 X 4) ECL BIPOLAR PROM
AM100P88	DIP28-600	100P88	65,536-BIT (8192 X 8) ECL BIPOLAR PROM
AM10415	DIP16	100415	1024 X 1 IMOX ECL BIPOLAR RAM
AM10469	DIP24-400	100469	512 X 9 ECL TAG BUFFER
AM10470	DIP18	100470	4096 X 1 IMOX ECL BIPOLAR RAM
AM10474	DIP24-400	100474	1024 X 4 IMOX ECL BIPOLAR RAM
AM10480	DIP20	10480	16,384 X 1 IMOX ECL BIPOLAR RAM
AM10KP14	DIP24-600	100KP14	4,096-BIT (1024 X 4) ECL BIPOLAR PROM
AM10KP14J	DIP24-600	100KP14	4,096-BIT (1024 X 4) ECL BIPOLAR PROM
AM10P14	DIP20	100P14	4,096-BIT (1024 X 4) ECL BIPOLAR PROM
AM10P44	DIP20	100P44	16,384-BIT (4096 X 4) ECL BIPOLAR PROM
AM10P88	DIP28-600	100P88	65,536-BIT (8192 X 8) ECL BIPOLAR PROM
AM2130	DIP48-600	RS1024K8	1024 X 8 DUAL-PORT STATIC RAM
AM2130L	LCC52SQ	RS1024K8	1024 X 8 DUAL-PORT STATIC RAM
AM2147	DIP18	2147	4096 X 1 STATIC RAM

**Table 3-1. AMD Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AM2148	DIP18	2148	1024 X 4 STATIC RAM
AM2149	DIP18	2148	1024 X 4 STATIC RAM
AM2150	DIP24-300	2150	512 X 9 TTL TAG BUFFER
AM2167	DIP20	6167	16,384 X 1 STATIC RAM
AM2168	DIP20	6168	4096 X 4 STATIC R/W RAM
AM2169	DIP20	6168	4096 X 4 STATIC R/W RAM
AM21L41	DIP18	21L41	4096 X 1 STATIC RAM
AM21L50	DIP24-300	2150	512 X 9 TTL LOW POWER TAG BUFFER
AM27128A	DIP28-600	RE16K8:RE16K8-A	16K X 8 BIT UV ERASABLE PROM
AM2716B	DIP24-600	RE2K8	2048 X 8 BIT EPROM
AM2764A	DIP28-600	2764	8K X 8 BIT EPROM
AM27C010	DIP32-600:LCC32	RE128K8:RE128K8-A	128K X 8 BIT CMOS EPROM
AM27C1024	DIP40-600	RE64K16	64K X 16 BIT CMOS EPROM
AM27C1024L	LCC44SQ	RE64K16	64K X 16 BIT CMOS EPROM
AM27C128	DIP28-600	RE16K8:RE16K8-A	16K X 8 BIT CMOS EPROM
AM27C256	DIP28-600	RE32K8:RE32K8-A	32K X 8 BIT EPROM
AM27C512	DIP28-600	RE64K8:RE64K8-A	64K X 8 BIT CMOS EPROM
AM27LS00	DIP16	82LS16	256-BIT LOW-POWER SCHOTTKY BIPOLAR RAM
AM27LS00L	LCC20SQ	82LS16	256-BIT LOW-POWER SCHOTTKY BIPOLAR RAM (SQ. 20-PIN LCC)
AM27LS01	DIP16	82LS16	256-BIT LOW-POWER SCHOTTKY BIPOLAR RAM
AM27LS01L	LCC20SQ	82LS16	256-BIT LOW-POWER SCHOTTKY BIPOLAR RAM (SQ. 20-PIN LCC)
AM27LS02	DIP16	82S25	64-BIT LOW-POWER INVERTING OUTPUT BIPOLAR RAM
AM27LS02L	LCC20SQ	82S25	64-BIT LOW-POWER INVERTING OUTPUT BIPOLAR RAM (SQ.LCC)
AM27LS03	DIP16	82S25	64-BIT LOW-POWER INVERTING OUTPUT BIPOLAR RAM

**Table 3-1. AMD Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AM27LS03L	LCC20SQ	82S25	64-BIT LOW-POWER INVERTING OUTPUT BIPOLAR RAM (SQ.LCC)
AM27LS06	DIP16	82S25	64-BIT LOW-PWR NON-INV OUTPUT BIPOLAR RAM
AM27LS06L	LCC20SQ	82S25	64-BIT LOW-PWR NON-INV OUTPUT BIPOLAR RAM (SQ.LCC)
AM27LS07	DIP16	82S25	64-BIT LOW-PWR NON-INV OUTPUT BIPOLAR RAM
AM27LS07L	LCC20SQ	82S25	64-BIT LOW-PWR NON-INV OUTPUT BIPOLAR RAM (SQ.LCC)
AM27LS18	DIP16	82S123	256-BIT (32 X 8) BIPOLAR PROM
AM27LS185	DIP18	82S185	8,192-BIT (2048 X 4) BIPOLAR PROM
AM27LS185L	LCC28SQ	82S185	8,192-BIT (2048 X 4) BIPOLAR PROM 28 PIN LCC VERSION
AM27LS18L	LCC20SQ	82S123	256-BIT (32 X 8) BIPOLAR PROM 20 PIN SQUARE LCC
AM27LS19	DIP16	82S123	256-BIT (32 X 8) BIPOLAR PROM
AM27LS191	DIP24-600	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM
AM27LS191S	LCC28SQ	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM (28-PIN SQUARE LCC)
AM27LS19L	LCC20SQ	82S123	256-BIT (32 X 8) BIPOLAR PROM
AM27LS291	DIP24-600:DIP24-300	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM
AM27LS291S	LCC28SQ	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM (28-PIN SQUARE LCC)
AM27PS181	DIP24-600	82S181	8,192-BIT (1024 X 8) BIPOLAR PROM
AM27PS181S	LCC28SQ	82S181	8,192-BIT (1024 X 8) BIPOLAR PROM (28-PIN SQUARE LCC)
AM27PS185	DIP18	82S185	8,192-BIT (2048 X 4) BIPOLAR PROM
AM27PS185L	LCC28SQ	RE2048K4	8,192-BIT (2048 X 4) BIPOLAR PROM ("S" SUF=SQ.LCC)
AM27PS191	DIP24-600	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM
AM27PS191S	LCC28SQ	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM (28-PIN SQUARE LCC)

**Table 3-1. AMD Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AM27PS281	DIP24-600:DIP24-300	27S180	8,192-BIT (1024 X 8) BIPOLAR PROM
AM27PS281S	LCC28SQ	82S181	8,192-BIT (1024 X 8) BIPOLAR PROM ("J" SUFFIX=PLCC)
AM27PS291	DIP24-600	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM
AM27PS291S	LCC28SQ	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM (28-PIN SQUARE LCC)
AM27PS41	DIP20	82HS195	16,384-BIT (4,096 X 4) BIPOLAR PROM (DIP PACKAGE)
AM27PS41J	LCC28SQ	82HS195	16,384-BIT (4,096 X 4) BIPOLAR PROM 28 PIN PLCC
AM27S12	DIP16	82S130	2,048-BIT (512 X 4) BIPOLAR PROM
AM27S12L	LCC20SQ	82S130	2,048-BIT (512 X 4) BIPOLAR PROM (LCC VERSION)
AM27S13	DIP16	82S130	2,048-BIT (512 X 4) BIPOLAR PROM
AM27S13L	LCC20SQ	82S130	2,048-BIT (512 X 4) BIPOLAR PROM
AM27S15	DIP24-600	82S115	4,096-BIT (512X8) BIPOLAR PROM W/OUTPUT DATA LATCHES
AM27S180	DIP24-600	27S180	8,192-BIT (1024 X 8) BIPOLAR PROM
AM27S180S	LCC28SQ	82S181	8,192-BIT (1024 X 8) BIPOLAR PROM (28-PIN SQUARE LCC)
AM27S181	DIP24-600	27S180	8,192-BIT (1024 X 8) BIPOLAR PROM
AM27S181S	LCC28SQ	82S181	8,192-BIT (1024 X 8) BIPOLAR PROM ("J" SUFFIX=PLCC)
AM27S184	DIP18	RE2048K4	8,192-BIT (2048 X 4) BIPOLAR PROM
AM27S184S	LCC28SQ	RE2048K4	8,192-BIT (2048 X 4) BIPOLAR PROM (SQ. LCC)
AM27S185	DIP18	RE2048K4	8,192-BIT (2048 X 4) BIPOLAR PROM
AM27S185S	LCC28SQ	RE2048K4	8,192-BIT (2048 X 4) BIPOLAR PROM (SQ. LCC)
AM27S190	DIP24-600	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM
AM27S190S	LCC28SQ	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM (28-PIN SQUARE LCC)
AM27S191	DIP24-600	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM



**Table 3-1. AMD Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AM27S191S	LCC28SQ	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM (28-PIN SQUARE LCC)
AM27S20	DIP16	82S126	1,024-BIT (256 X 4) BIPOLAR PROM
AM27S20L	LCC20SQ	82S126	1,024-BIT (256 X 4) BIPOLAR PROM
AM27S21	DIP16	82S126	1,024-BIT (256 X 4) BIPOLAR PROM
AM27S21L	LCC20SQ	82S126	1,024-BIT (256 X 4) BIPOLAR PROM
AM27S25	DIP24-300	27S25	4K-BIT (512 X 8) BIPOLAR REGISTERED PROM W/ PRE & CLR IN
AM27S25S	LCC28SQ	27S25	4K-BIT (512 X 8) BIPOLAR REG.PROM (32-PIN RECT LCC)
AM27S27	DIP22-300	27S27	4K-BIT (512 X 8) BIPOLAR REGISTERED PROM
AM27S28	DIP20:LCC20SQ	27S28	4K BIT (512 X 8) BIPOLAR PROM
AM27S280	DIP24-300	27S180	8,192-BIT (1024 X 8) BIPOLAR PROM
AM27S280S	LCC28SQ	82S181	8,192-BIT (1024 X 8) BIPOLAR PROM ("J" SUFFIX=PLCC)
AM27S281	DIP24-600:DIP24-300	27S180	8,192-BIT (1024 X 8) BIPOLAR PROM
AM27S281S	LCC28SQ	82S181	8,192-BIT (1024 X 8) BIPOLAR PROM ("J" SUFFIX=PLCC)
AM27S29	DIP20:LCC20SQ	27S28	4K BIT (512 X 8) BIPOLAR PROM
AM27S290	DIP24-600:DIP24-300	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM
AM27S290S	LCC28SQ	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM (28-PIN SQUARE LCC)
AM27S291	DIP24-600:DIP24-300	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM
AM27S291S	LCC28SQ	27S190	16,384-BIT (2048 X 8) BIPOLAR PROM (28-PIN SQUARE LCC)
AM27S31	DIP24-600	27S31	(512 X 8) BIPOLAR PROM
AM27S31S	LCC28SQ	27S31L	(512 X 8) BIPOLAR PROM
AM27S32	DIP18	27S32	4,096-BIT (1024 X 4) BIPOLAR PROM
AM27S32L	LCC20SQ	27S32	4,096-BIT (1024 X 4) BIPOLAR PROM
AM27S33	DIP18	27S32	4,096-BIT (1024 X 4) BIPOLAR PROM

**Table 3-1. AMD Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AM27S33L	LCC20SQ	27S32	4,096-BIT (1024 X 4) BIPOLAR PROM
AM27S35	DIP24-300	27S35	8K (1024 X 8) BIPOLAR REG PROM W/PROG INIT
AM27S35S	LCC28SQ	27S35	8K (1024 X 8) BIPOLAR REG PROM W/PROG INIT (28-PIN LCC)
AM27S37	DIP24-300	27S35	8K (1024 X 8) BIPOLAR REG PROM W/PROG INIT
AM27S37S	LCC28SQ	27S35	8K (1024 X 8) BIPOLAR REG PROM W/PROG INIT (28-PIN LCC)
AM27S41	DIP20	27S41	16,384-BIT (4,096 X 4) BIPOLAR PROM
AM27S43	DIP24-600	RE4K8	32,768-BIT (4096 X 8) BIPOLAR PROM
AM27S43S	LCC28SQ	RE4K8	32,768-BIT (4096 X 8) BIPOLAR PROM (28-PIN SQ. LCC)
AM27S45	DIP24-600	RE4K8	16,384-BIT (2048 X 8) BIPOLAR REG PROM W/INIT.
AM27S45S	LCC28SQ	RE4K8	16,384-BIT (2048 X 8) BIPOLAR REG PROM W/INIT.(28P LCC)
AM27S47	DIP24-600	RE4K8	16,384-BIT (2048 X 8) BIPOLAR REG PROM W/INIT.
AM27S47S	LCC28SQ	RE4K8	16,384-BIT (2048 X 8) BIPOLAR REG PROM W/INIT.(28P LCC)
AM27S49	DIP24-600	27S49	8192 X 8 GENERIC SERIES IMOX BIPOLAR PROM
AM27S49S	LCC28SQ	27S49	8192 X 8 GENERIC SERIES IMOX BIPOLAR PROM
AM27S51	DIP28-600	27S51	131,072-BIT (16,384 X 8) BIPOLAR PROM
AM27S55	DIP24-300	27S55	32,768-BIT (4096 X 8) BIPOLAR REGISTERED PROM
AM27S65	DIP24-300	27S65	4K (1024 X 4) BIPOLAR REG PROM W/SSR DIAGNOSTIC
AM27S65L	LCC28SQ	27S65	4K (1024 X 4) BIPOLAR REG PROM W/SSR DIAGNOSTIC
AM27S75	DIP24-300	27S75	8K (2048 X 4) BIPOLAR REG PROM W/SSR DIAGNOSTIC

**Table 3-1. AMD Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AM27S75L	LCC28SQ	27S75	8K (2048 X 4) BIPOLAR REG PROM W/SSR DIA (28/PIN LCC)
AM27S85	DIP24-300	27S85	16K (4K X 4) REGISTERED PROM W/SSR DIAGNOSTICS
AM27S85L	LCC28SQ	27S85	16K (4K X 4) REGISTERED PROM W/SSR DIA (28-PIN LCC)
AM27S95	DIP28-400	27S95	32K (8K X 4) BIPOLAR REG PROM W/SSR DIAGNOSTICS
AM2817A	DIP28-600	RS2K8	2048 X 8 BIT ELECTRICALLY ERASABLE PRO
AM2864	DIP28-600	RS8K8:RS8K8-A	8192 X 8 ELECTRICALLY ERASABLE PROM
AM2864A	DIP28-600	RS8K8:RS8K8-A	8192 X 8 ELECTRICALLY ERASABLE PROM
AM2864B	DIP28-600	RS8K8:RS8K8-A	8192 X 8 ELECTRICALLY ERASABLE PROM
AM28C256	DIP28-600	RS32K8	32K X 8 BIT CMOS EEPROM
AM29818	DIP24-300	\29818	8-BIT DIAGNOSTICS\PIPELINE REGISTER
AM29818-CC	LCC28SQ	\29818	8-BIT DIAGNOSTICS\PIPELINE REGISTER
AM29821	DIP24-300	\29821	HI PERFORMANCE BUS INTERFACE REGISTE
AM29821-CC	LCC28SQ	\29821	HI PERFORMANCE BUS INTERFACE REGISTE
AM29822	DIP24-300	\29822	HI PERFORMANCE BUS INTERFACE REGISTE (INVERTING)
AM29822-CC	LCC28SQ	\29822	HI PERFORMANCE BUS INTERFACE REGISTE (INVERTING)
AM29823	DIP24-300	\29823	HI PERFORMANCE BUS INTERFACE REGISTE (NON-INVERT)
AM29823-CC	LCC28SQ	\29823	HI PERFORMANCE BUS INTERFACE REGISTE (NON-INVERT)
AM29824	DIP24-300	\29824	HI PERFORMANCE BUS INTERFACE REGISTE (INVERTING)
AM29824-CC	LCC28SQ	\29824	HI PERFORMANCE BUS INTERFACE REGISTE (INVERTING)
AM29825	DIP24-300	\29825	HI PERFORMANCE BUS INTERFACE REGISTE (NON INVERTING)
AM29825-CC	LCC28SQ	\29825	HI PERFORMANCE BUS INTERFACE REGISTE (NON INVERTING)

**Table 3-1. AMD Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AM29826	DIP24-300	\29826	HI PERFORMANCE BUS INTERFACE REGISTER (INVERTING)
AM29826-CC	LCC28SQ	\29826	HI PERFORMANCE BUS INTERFACE REGISTER (INVERTING)
AM29827	DIP24-300	\29827	HI PERFORMANCE BUFFER (NON INVERTING)
AM29828	DIP24-300	\29828	HI PERFORMANCE BUFFER (INVERTING)
AM29861	DIP24-300	\29861	10-BIT BUS TRANSCEIVER (NON INVERTING)
AM29862	DIP24-300	\29862	10-BIT BUS TRANSCEIVER (INVERTING)
AM29863	DIP24-300	\29863	9-BIT BUS TRANSCEIVER (NON INVERTING)
AM29864	DIP24-300	\29864	9-BIT BUS TRANSCEIVER (INVERTING)
AM29PL141	DIP28-600:LCC28SQ	DIP26	FUSE PROGRAMMABLE CONTROLLER (FPC)
AM31L01	DIP16	31L01	64-BIT LOW PWR WRITE TRNSPRNT, INV. OUTPUT BIPOLAR RAM
AM31L01L	LCC20SQ	31L01	64-BIT LOW PWR WRITE TRNSPRNT, INV. OUTPUT BIPOLAR RAM
AM7990	DIP48-600	7990	LOCAL AREA NETWORK CONTROLLER FOR ETHERNET (LANCE)
AM7992A	DIP24-300	7992	SERIAL INTERFACE ADAPTER (SIA)
AM8152A	DIP48-600	8152	VIDEO SYSTEM CONTROLLER (VSC)
AM8152AL	LCC52SQ	8152	VIDEO SYSTEM CONTROLLER (VSC)
AM8153A	DIP48-600	8152	VIDEO SYSTEM CONTROLLER (VSC)
AM8153AL	LCC52SQ	8152	VIDEO SYSTEM CONTROLLER (VSC)
AM9044	DIP18	9044	4096 X 1 STATIC RAM
AM90C644	DIP24-400	90C644	64K X 4 CMOS DUAL-ARRAY MEMORY
AM9114	DIP18	9114	1024 X 4 STATIC RAM
AM9124	DIP18	9114	1024 X 4 STATIC RAM
AM9128	DIP24-600	9128	2048 X 8 STATIC RAM
AM9151	DIP24-300	9151	1024 X 4 REGISTERED STATIC RAM W/SSR-DIAGNOSTIC
AM93L415	DIP16	93L415	1024 X 1 BIT TTL BIPOLAR IMOX RAM

Table 3-1. AMD Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
AM93L422	DIP22-400	93L412	256 X 4-BIT LOW-POWER TTL BIPOLAR IMOX RAM
AM93L425	DIP16	93L415	1024 X 1 BIT TTL BIPOLAR IMOX RAM
AM93L469	DIP24-300	93L469	512 X 9 TTL LOW-POWER TAG BUFFER
AM9864	DIP28-600	9864	8192 X 8 BIT ELECTRICALLY ERASABLE PRO
AM99C10	DIP24-400	99C10	256 X 48 CONTENT ADDRESSABLE MEMORY (CAM)
AM99C164	DIP22-300	99C164	16,384 X 4 STATIC R/W RAM
AM99C19	DIP28-600	99C19	1024 X 9 FIRST-IN/FIRST-OUT (FIFO)
AM99C328	DIP28-600	99C328	32,768 X 8 STATIC R/W RAM
AM99C416	DIP40-600	99C416	4096 X 16 STATIC R/W RAM
AM99C58	DIP24-300	99C58	4096 X 4 CMOS STATIC RAM
AM99C59	DIP24-300	99C58	4096 X 4 CMOS STATIC RAM
AM99C60	DIP24-300	99C60	4096 X 4 CMOS STATIC RAM W/ RESET
AM99C641	DIP22-300	99C641	64,536 X 1 STATIC R/W RAM
AM99C89	DIP28-600	99C89	8192 X 9 STATIC R/W RAM
AM99CL68	DIP20	99CL68	4096 X 4 CMOS STATIC R/W RAM
AM99CL88	DIP28-600	99C88	8K X 8 CMOS STATIC RAM
AMAM93L412	DIP22-400	93L412	256 X 4-BIT LOW-POWER TTL BIPOLAR IMOX RAM
AM2064	DIP48-600	2064	LOGIC CELL ARRAY
PAL10020EG8	DIP24-300	10H20	IMOX-III ECL PROGRAMMABLE ARRAY LOGIC
PAL10020EG8L	LCC28SQ	10H20	IMOX-III ECL PROGRAMMABLE ARRAY LOGIC
PAL10020EV8	DIP24-300	10H20	IMOX-III ECL PROGRAMMABLE ARRAY LOGIC
PAL10020EV8L	LCC28SQ	10H20	IMOX-III ECL PROGRAMMABLE ARRAY LOGIC
PAL10H20EG8	DIP24-300	10H20	IMOX-III ECL PROGRAMMABLE ARRAY LOGIC
PAL10H20EG8L	LCC28SQ	10H20	IMOX-III ECL PROGRAMMABLE ARRAY LOGIC
PAL10H20EV8	DIP24-300	10H20	IMOX-III ECL PROGRAMMABLE ARRAY LOGIC
PAL10H20EV8L	LCC28SQ	10H20	IMOX-III ECL PROGRAMMABLE ARRAY LOGIC
PAL16H2	DIP20:LCC20SQ	16H2	PROGRAMMABLE ARRAY LOGIC (PAL)

**Table 3-1. AMD Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
PAL16H8	DIP20:LCC20SQ	16H8	20-PIN IMOX PROGRAMMABLE ARRAY LOG (PAL) ELEM
PAL16HD8	DIP20:LCC20SQ	16HD8	20-PIN IMOX PROGRAMMABLE ARRAY LOG (PAL) ELEMENT
PAL16L2	DIP20:LCC20SQ	16L2	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL16L8	DIP20:LCC20SQ	16L8	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL16LD8	DIP20:LCC20SQ	16LD8	20-PIN IMOX PROGRAMMABLE ARRAY LOG (PAL) ELEMENT
PAL16P2	DIP20:LCC20SQ	16P2	20-PIN IMOX PROGRAMMABLE ARRAY LOG (PAL) ELEM
PAL16P8	DIP20:LCC20SQ	16L8	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL16R4	DIP20:LCC20SQ	16R4	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL16R6	DIP20:LCC20SQ	16R6	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL16R8	SO28	16R8	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL16RP4	DIP20:LCC20SQ	16R4	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL16RP6	DIP20:LCC20SQ	16R6	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL16RP8	DIP20:LCC20SQ	16R8	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL18P8	DIP20:LCC20SQ	18P8	20-PIN PROGRAMMABLE ARRAY LOGIC (PAL) ELEM
PAL20H8	DIP24-600	20H8	24-PIN (PAL) ELEM
PAL20L10	DIP24-300:SO24WB	20L10	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20L10L	LCC28SQ	20L10	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20L8	DIP24-300:SO24WB	20L8	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20L8L	LCC28SQ	20L8	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20R4	DIP24-300:SO24WB	20R4	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20R4L	LCC28SQ	20R4	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20R6	DIP24-300:SO24WB	20R6	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20R6L	LCC28SQ	20R6	PROGRAMMABLE ARRAY LOGIC (PAL)

Table 3-1. AMD Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
PAL20R8	DIP24-300:SO24WB	20R8	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20R8L	LCC28SQ	20R8	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20RP10	DIP24-300:SO24WB	20RP10	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20RP10L	LCC28SQ	20RP10	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20RP4	DIP24-300:SO24WB	20RP4	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20RP4L	LCC28SQ	20RP4	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20RP6	DIP24-300:SO24WB	20RP6	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20RP6L	LCC28SQ	20RP6	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20RP8	DIP24-300:SO24WB	20RP8	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20RP8L	LCC28SQ	20RP8	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20XRP10	DIP24-300:SO24WB	20RP10	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20XRP10L	LCC28SQ	20RP10	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20XRP4	DIP24-300:SO24WB	20RP4	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20XRP4L	LCC28SQ	20RP4	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20XRP6	DIP24-300:SO24WB	20RP6	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20XRP6L	LCC28SQ	20RP6	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20XRP8	DIP24-300:SO24WB	20RP8	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL20XRP8L	LCC28SQ	20RP8	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL22P10	DIP24-300:SO24WB	22P10	24-PIN IMOX PROGRAMMABLE ARRAY LOGIC (PAL) ELEM
PAL22P10L	LCC28SQ	22P10	PROGRAMMABLE ARRAY LOGIC (PAL)
PAL22V10	DIP24-300:SO24WB	22V10	EPROM PROGRAMMABLE ARRAY LOGIC (PAL) ELEM
PAL22V10L	LCC28SQ	22V10	EPROM PROGRAMMABLE ARRAY LOGIC (PAL) ELEM

**Table 3-1. AMD Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
PAL22XP10	DIP24-300:SO24WB	22XP10	IMOX PROGRAMMABLE ARRAY LOGIC (PAL ELEM)
PAL22XP10L	LCC28SQ	22XP10	IMOX PROGRAMMABLE ARRAY LOGIC (PAL ELEM)
PAL23S8	DIP20	23S8	20-PIN IMOX PAL-BASED SEQUENCER
PALHCT29M16	DIP24-300	29M16	E2-BASED CMOS PROGRAMMABLE ARRAY LOGIC
PALHCT29M16L	LCC28SQ	29M16	E2-BASED CMOS PROGRAMMABLE ARRAY LOGIC



# Chapter 4

## Analogdev Library

The following table lists all the part types in the analogdev sample library. This listing is based on the part types and lists any associated PCB Decals and Logic Decals. The associated PCB and/or Logic decals are not necessarily sourced from the same library as the part type.

**Table 4-1. Analogdev Library Part Types**

Part Type	PCB Decals	Logic Decals	Description
AD-ADC80	DIP32-900	AD-ADC80	12-BIT SUCCESSIVE APPROXIMATION A/D CONVERTER
AD-ADC84	DIP32-900	AD-ADC84	FAST, 12-BIT A/D CONVERTER
AD-ADC85	DIP32-900	AD-ADC84	FAST, 12-BIT A/D CONVERTER
AD1139	DH-32E:M-32	AD1139	HIGH ACCURACY, 18-BIT D/A CONVERTER
AD1170	AD1170	AD1170	HIGH RESOLUTION, PROGRAMMABLE INTERGRATING ADC
AD1315	Z-16A	AD1315	HIGH SPEED ACTIVE LOAD WITH INHIBIT
AD1321	Z-16A	AD1321	HIGH SPEED PIN DRIVER WITH INHIBIT
AD1322	Z-16A	AD1321	ULTRAHIGH SPEED PIN DRIVER WITH INHIBIT
AD1376	DH-32E	AD1376	HIGH SPEED, 16-BIT A/D CONVERTER
AD1377	DH-32E	AD1376	HIGH SPEED, 16-BIT A/D CONVERTER
AD1378	DH-32E	AD1376	WIDE TEMPERATURE, 16-BIT A/D CONVERTER
AD1380	DH-32E	AD1380	16-BIT SAMPLING ADC
AD1382	DH-48A	AD1382	16-BIT, 500KHZ, SAMPLING ADC
AD1403	DIP8	AD580	PRECISION 2.5V IC REFERENCE
AD1403A	DIP8	AD580	PRECISION 2.5V IC REFERENCE
AD1674A	DIP28-600:SO28WB:DIP28-300	AD574	12-BIT A/D CONVERTER
AD1851	DIP16:SO16NB	AD1851	16-BIT PCM AUDIO DAC

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD1856	DIP16:SO16NB	AD766	16-BIT PCM AUDIO DAC
AD1860	DIP16:SO16NB	AD766	18-BIT PCM AUDIO DAC
AD1861	DIP16:SO16NB	AD1851	18-BIT PCM AUDIO DAC
AD1862	DIP16	AD1862	20-BIT ULTRALOW NOISE DAC
AD1864N	DIP24-300	AD1864:AD1864A	COMPLETE DUAL 18-BIT AUDIO DAC
AD1864P	PLCC28SQ	AD1864:AD1864A	COMPLETE DUAL 18-BIT AUDIO DAC
AD1865N	DIP24-300	AD1865:AD1865A	DUAL 18-BIT 16XFs AUDIO DAC
AD1865R	SO28WB	AD1865:AD1865A	DUAL 18-BIT 16XFs AUDIO DAC
AD1868	DIP16:SO16WB	AD1868:AD1868A	SINGLE SUPPLY, DUAL 18-BIT AUDIO DAC
AD1876JN	DIP16	AD1876	16-BIT, SERIAL, 100KSPS SAMPLING ADC
AD202D	D-202	ISO-D202	ISOLATION AMPLIFIER
AD202Y	Y-202	ISO-202	ISOLATION AMPLIFIER
AD203SN	D-203	ISO-203	ISOLATION AMPLIFIER
AD204D	D-204	ISO-D202	ISOLATION AMPLIFIER
AD204Y	Y-204	ISO-202	ISOLATION AMPLIFIER
AD208Y	Y-204	ISO-202	ISOLATION AMPLIFIER
AD210	D-210	ISO-210	ISOLATION AMPLIFIER
AD230	DIP20:SO20WB	AD230	CMOS, RS-232 DRIVER
AD231	DIP14	AD231	CMOS, RS-232 DRIVER/RECEIVER
AD231R	SO16WB	AD231	CMOS, RS-232 DRIVER/RECEIVER
AD232	DIP16:SO16WB	AD232	CMOS, RS-232DRIVER/RECEIVER
AD233	DIP20	AD233	CMOS, RS-232 DRIVER/RECEIVER
AD234	DIP16:SO16WB	AD234	CMOS, RS-232 DRIVER
AD235	DIP24-600	AD235	CMOS, RS-232 DRIVER/RECEIVER
AD236	DIP24-300:SO24WB	AD236	CMOS, RS-232 DRIVER/RECEIVER
AD237	DIP24-300:SO24WB	AD237	CMOS, RS-232 DRIVER/RECEIVER
AD238	DIP24-300:SO24WB	AD238	CMOS, RS-232 DRIVER/RECEIVER

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD239	DIP24-300:SO24WB	AD239	CMOS RS-232 DRIVER/RECEIVER
AD241	SO28WB	AD241	CMOS, RS-232 DRIVER/RECEIVER
AD2700	DH-14C	AD2700	+10V PRECISION REFERENCE
AD2701	DH-14C	AD2700	-10V PRECISION REFERENCE
AD2702	DH-14C	AD2702	+/- 10V PRECISION REFERENCE
AD2710	DIP14	AD2700	+10V PRECISION REFERENCE
AD2712	DIP14	AD2702	+/- 10V PRECISION REFERENCE
AD295	D-295	ISO-295	HYBRID ISOLATION AMPLIFIER
AD2S34	Z-32	AD2S34	14-BIT, DUAL CHANNEL, RESOLVER TO DIGITAL CONVERTER
AD2S44	DH-32E	AD2S44	14-BIT, DUAL CHANNEL, SYNCHRO/RESOLVER TO DAC
AD2S46	DIP28-600	AD2S46	16-BIT SYNCHRO/RESOLVER TO DAC
AD2S65	DH-32E	AD2S65	14-BIT, DIGITAL TO RESOLVER CONVERTER
AD2S66	DH-32E	AD2S66	16-BIT, DIGITAL TO RESOLVER CONVERTER
AD2S80A	DIP40-600	AD2S80A	VARIABLE RESOLUTION RESOLVER TO DAC
AD2S80AE	LCC44SQ	AD2S80A	VARIABLE RESOLUTION RESOLVER TO DAC
AD2S81AJD	DIP28-600	AD2S81AJD	FIXED RESOLUTION RESOLVER TO DAC
AD2S82A	PLCC44	AD2S82A	VARIABLE RESOLUTION RESOLVER TO DAC
AD346	DH-14A	AD346	SAMPLE-AND-HOLD AMPLIFIER
AD363ADC	DIP32-900	AD363ADC	12-BIT ADC SECTION FOR AD363 SYSTEM
AD363AIS	DH-32E	AD363AIS	16-CHANNEL MUX FOR AD363 SYSTEM
AD364ADC	DIP28-600	AD364ADC	12-BIT ADC, FOR AD364 SYSTEM
AD364AIS	DH-32E	AD363AIS	16-CHANNEL MUX FOR AD364 SYSTEM
AD365	DH-16B	AD365	PROGRAMMABLE GAIN&T/H DAS AMPLIFIER
AD380	TO-8	OPAMP2-TRIM-C	WIDEBAND, FAST-SETTLING FET-INPUT OP AMP
AD381	TO-99	OPAMP2-TRIM	HIGH-SPEED, LOW DRIFT FET OP AMP
AD382	TO-8	OPAMP2-TRIM	HIGH-SPEED, LOW DRIFT FET OP AMP

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD386	DH-24B	AD386	16-BIT TRACK-AND-HOLD AMPLIFIER
AD389	DH-14A	AD389	HIGH RESOLUTION TRACK-AND-HOLD AMPLIFIER
AD390	DIP28-600	AD390	QUAD 12-BIT D/A CONVERTER
AD394	DH-28A	AD394	QUAD 12-BIT D/A CONVERTER (BI-POLAR 10V OUTPUT)
AD395	DH-28A	AD394	QUAD 12-BIT D/A CONVERTER (UNI-POLAR 10V OUTPUT)
AD396	DH-28A	AD396	QUAD 14-BIT D/A CONVERTER
AD507	TO-99	OPAMP2-TRIM-C	WIDEBAND, FAST SLEWING, GENERAL PURPOSE OP-AMP
AD509	TO-99	OPAMP2-TRIM-C	HIGH-SPEED, FAST SETTLING, OP-AMP
AD515A	TO-99	OPAMP2-TRIM-C	LOW POWER FET-INPUT ELECTROMETER OP-AMP
AD517	TO-99	OPAMP2-TRIM	LASER TRIMMED, PRECISIOIN OP-AMP
AD5204	DIP32-900	AD-ADC84	FAST, 12-BIT A/D CONVERTER
AD521	DIP14	AD521	PRECISION INSTRUMENTATION AMPLIFIER
AD522	DH-14B	AD522	HIGH ACCURACY INSTRUMENTATION AMPLIFIER
AD524	DIP16	AD524	PRECISION INSTRUMENTATION AMPLIFIER
AD524E	LCC20SQ	AD524	PRECISION INSTRUMENTATION AMPLIFIER
AD526	DIP16	AD526	SOFTWARE PROGRAMMABLE GAIN AMPLIFIER
AD532D	DIP14	AD532	INTERGRATED CIRCUIT MULTIPLIER
AD532H	TO-100	AD532	INTERGRATED CIRCUIT MULTIPLIER
AD532SE	LCC20SQ	AD532	INTERGRATED CIRCUIT MULTIPLIER
AD534D	DIP14	AD534	PRECISION IC MULTIPLIER
AD534E	LCC20SQ	AD534	PRECISION IC MULTIPLIER
AD534H	TO-100	AD534	PRECISION IC MULTIPLIER
AD537D	DIP14	AD537D	VOLTAGE-TO-FREQUENCY CONVERTER
AD537H	TO-100	AD537H	VOLTAGE-TO-FREQUENCY CONVERTER

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD538	DIP18	AD538	REAL-TIME ANALOG COMPUTATIONAL UNIT (ACU)
AD539	DIP16	AD539	WIDEBAND DUAL-CHANNEL LINEAR MULTIPLIER/DIVIDER
AD542	TO-99	OPAMP2-TRIM	HIGH PERFORMANCE BIFET OP-AMP
AD544	TO-99	OPAMP2-TRIM	HIGH PERFORMANCE BIFET OP-AMP
AD545A	TO-99	OPAMP2-TRIM-C	PRECISION LOW DRIFT FET INPUT OP AMP
AD546	DIP8	OPAMP2-TRIM	1 PA ELECTROMETER OP AMP
AD547	TO-99	OPAMP2-TRIM	HIGH PERFORMANCE BIFET OP-AMP
AD548	DIP8:SO8NB:TO-99	OPAMP2-TRIM	PRECISION LOW POWER BIFET OP AMP
AD549	TO-99	OPAMP2-TRIM-C	ULTRA LOW INPUT BIAS CURRENT OP AM
AD5539	DIP14	OPAMP-C	ULTRAHIGH FREQUENCY OP AMP
AD557N	DIP16	AD557	MICROPROCESSOR COMPATIBLE 8-BIT DA
AD557P	PLCC20SQ	AD557	MICROPROCESSOR COMPATIBLE 8-BIT DA
AD558	DIP16	AD557	MICROPROCESSOR COMPATIBLE 8-BIT DA
AD558P	PLCC20SQ	AD557	MICROPROCESSOR COMPATIBLE 8-BIT DA
AD561	DIP16	AD561	10-BIT MOMLITHIC D/A CONVERTER
AD562	DIP24-300	AD562	12-BIT D/A CONVERTER
AD563	DIP24-300	AD563	12-BIT D/A CONVERTER
AD565A	DIP24-600	AD565A	HIGH SPEED 12-BIT D/A CONVERTER
AD566A	DIP24-600	AD566A	HIGH SPEED 12-BIT D/A CONVERTER
AD568	DIP24-300	AD568	12-BIT ULTRAHIGH SPEED D/A CONVERTER
AD569	DIP28-600:PLCC28SQ	AD569	16-BIT MONOTONIC D/A CONVERTER
AD570	DIP18	AD570	8-BIT A/D CONVERTER
AD571	DIP18	AD571	10-BIT A/D CONVERTER
AD572	DIP32-900	AD572	12-BIT SUCCESSIVE APPROXIMATION A/D CONVERTER
AD573	DIP20:PLCC20SQ	AD573	10-BIT A/D CONVERTER

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD574A	DIP28-600:PLCC28SQ	AD574	12-BIT A/D CONVERTER
AD575	DIP14	AD575	10-BIT SERIAL OUTPUT A/D CONVERTER
AD578	DIP32-600	AD578	VERY FAST 12-BIT A/D CONVERTER
AD579	DIP32-600	AD579	VERY FAST 10-BIT A/D CONVERTER
AD580	TO-52	AD580	HIGH PRECISION 2.5V IC REFERENCE
AD581	TO-52	AD580	HIGH PRECISION 10V IC REFERENCE
AD582D	DIP14	AD389	SAMPLE-AND-HOLD AMPLIFIER
AD582H	TO-100	AD389	SAMPLE-AND-HOLD AMPLIFIER
AD583	DIP14	AD583	SAMPLE-AND-HOLD AMPLIFIER
AD584	DIP8:TO-99	AD584	PIN PROGRAMMABLE, PRECISION VOLTAGE REF.
AD585	DIP14	AD585	HIGH SPEED, PRECISION SAMPLE-AND-HOLD AMPLIFIER
AD585P	PLCC20SQ:LCC20SQ	AD585	HIGH SPEED, PRECISION SAMPLE-AND-HOLD AMPLIFIER
AD586	DIP8:SO8NB	AD586	HIGH PRECISION 5V REFERENCE
AD587	DIP8:SO8NB	AD586	HIGH PRECISION 10V REFERENCE
AD588	DIP16	AD588	HIGH PRECISION VOLTAGE REFERENCE
AD589	H-02A	AD589	TWO TERMINAL IC 1.2V REFERENCE
AD589JR	SO8NB	AD589	TWO TERMINAL IC 1.2V REFERENCE
AD624	DIP16	AD524	PRECISION INSTRUMENTATION AMPLIFIER
AD625	DIP16	AD625	PROGRAMMABLE GAIN INSTRUMENTATION AMPLIFIER
AD625E	LCC20SQ	AD625	PROGRAMMABLE GAIN INSTRUMENTATION AMPLIFIER
AD630	DIP20	AD630	BALANCED MODULATOR/DEMODULATOR
AD632D	DIP14	AD534	PRECISION IC MULTIPLIER
AD632H	TO-100	AD534	PRECISION IC MULTIPLIER
AD642	TO-99	OPAMP2	DUAL PRECISION BIFET OP AMP
AD644	TO-99	OPAMP2	DUAL HIGH-SPEED BIFET OP AMP

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD645H	TO-99	OPAMP2-TRIM-C	LOW NOISE FET OP-AMP
AD645N	DIP8	OPAMP2-TRIM	LOW NOISE FET OP-AMP
AD647E	LCC20SQ	OPAMP2	DUAL ULTRA LOW DRIFT BIFET OP AMP
AD647H	TO-99	OPAMP2	DUAL ULTRA LOW DRIFT BIFET OP AMP
AD648	DIP8:SO8NB:TO-99	OPAMP2	DUAL PRECISION LOW POWER BIFET OP AMP
AD650	DIP14	AD537D	FREQUENCY-TO VOLTAGE CONVERTER
AD652P	PLCC20SQ	AD652P	VOLTAGE-TO FREQUENCY CONVERTER
AD652Q	DIP16	AD652	VOLTAGE-TO FREQUENCY CONVERTER
AD654	DIP8:SO8NB	AD654	VOLTAGE-TO FREQUENCY CONVERTER
AD664N	DIP28-600:DIP28-300	AD664	QUAD 12-BIT MONOLITHIC D/A CONVERTER
AD664P	PLCC44:LCC44SQ	AD664P	QUAD 12-BIT MONOLITHIC D/A CONVERTER
AD667	DIP28-600:PLCC28SQ	AD667	MICROPROCESSOR COMPATIBLE 12-BIT D/A CONVERTER
AD668	DIP24-300	AD568	12-BIT ULTRAHIGH SPEED D/A CONVERTER
AD669	DIP28-600:SO28WB	AD669	MONOLITHIC 16-BIT DACPORT
AD670	DIP20:PLCC20SQ	AD670	8-BIT ADC
AD671	DIP24-300:DIP24-600	AD671	12-BIT, 2MHZ, A/D CONVERTER
AD673	DIP20:PLCC20SQ	AD673	8-BIT A/D CONVERTER
AD674A	DIP28-600	AD574	12-BIT A/D CONVERTER
AD674B	DIP28-600:SO28WB:DIP28-300	AD574	12-BIT A/D CONVERTER, 15US
AD678	DIP28-600:DIP28-300	AD678	12-BIT, 200KSPS, SAMPLING ADC
AD678J	PLCC44	AD678	12-BIT, 200KSPS, SAMPLING ADC

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD679	DIP28-600:DIP28-300	AD678	14-BIT, 128KSPS, SAMPLING ADC
AD679J	PLCC44	AD678	14-BIT, 128KSPS, SAMPLING ADC
AD680JT	TO-92	AD580	LOW POWER, 2.5V REFERENCE
AD680N	DIP8:SO8NB	AD680N	LOW POWER, 2.5V REFERENCE
AD682	DIP14	S/H-AMP	TWO-CHANNEL, 700NS SAMPLE-AND-HOLD AMPLIFIER
AD684	DIP16	S/H-AMP	FOUR CHANNEL, SAMPLE-AND-HOLD AMPLIFIER
AD688	DIP16	AD588	HIGH PRECISION VOLTAGE REFERENCE
AD704N	DIP14	OPAMP2	QUAD PICOAMPERE INPUT CURRENT BIPOLAR OP AMP
AD704R	SO16WB	OPAMP2	QUAD PICOAMPERE INPUT CURRENT BIPOLAR OP AMP
AD705	DIP8:SO8NB	OPAMP2-TRIM-C	PICOAMPERE INPUT-CURRENT BIPOLAR OP AMP
AD706	DIP8:SO8NB	OPAMP2	DUAL PICOAMPERE INPUT CURRENT BIPOLAR OP AMP
AD707	TO-99:DIP8:SO8NB	OPAMP2-TRIM	ULTRALOW DRIFT OP AMP
AD708	DIP8:TO-99	OPAMP2	DUAL ULTRALOW OFFSET VOLTAGE OP AMP
AD711	TO-99:DIP8:SO8NB	OPAMP2-TRIM	PRECISION HIGH SPEED BIFET OP AMP
AD7111E	LCC20SQ	AD7111	LOGDAC, CMOS LOGARITHMIC D/A CONVERTER
AD7111N	DIP16	AD7111	LOGDAC, CMOS LOGARITHMIC D/A CONVERTER
AD7118	DIP16	AD7118	LOGDAC, CMOS LOGARITHMIC D/A CONVERTER
AD712	DIP8:SO8NB:TO-99	OPAMP2	DUAL PRECISION HIGH SPEED BIFET OP AMP
AD713	DIP14	OPAMP2	QUAD PICOAMPERE INPUT CURRENT BIPOLAR OP AMP



**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD7224N	DIP18	AD7224	8-BIT CMOS D/A CONVERTER, VOLTAGE OUTPUT
AD7224P	PLCC20SQ:LCC20SQ	AD7224	8-BIT CMOS D/A CONVERTER, VOLTAGE OUTPUT
AD7224R	SO20WB	AD7224	8-BIT CMOS D/A CONVERTER, VOLTAGE OUTPUT
AD7225N	DIP24-300:SO24WB	AD7225	QUAD 8-BIT DAC WITH SEPARATE REF. INPUTS
AD7225P	PLCC28SQ:LCC28SQ	AD7225	QUAD 8-BIT DAC WITH SEPARATE REF. INPUTS
AD7226	DIP20:SO20WB:PLCC20SQ	AD7226	QUAD 8-BIT CMOS D/A CONVERTER
AD7228AN	DIP24-300:SO24WB	AD7228	OCTAL, 8-BIT D/A CONVERTER
AD7228AP	PLCC28SQ	AD7228	OCTAL, 8-BIT D/A CONVERTER
AD7228N	DIP24-300:SO24WB	AD7228	OCTAL, 8-BIT D/A CONVERTER
AD7228P	PLCC28SQ:LCC28SQ	AD7228	OCTAL, 8-BIT D/A CONVERTER
AD7233	DIP8	AD7233	12-BIT SERIAL MINI-DIP DACPORT
AD7237	DIP24-300:SO24WB	AD7237	DUAL 12-BIT DACPORT
AD7242N	DIP24-300	AD7242	DUAL 12-BIT SERIAL DACPORT
AD7242R	SO28WB	AD7242	DUAL 12-BIT SERIAL DACPORT
AD7243	DIP16:SO16WB	AD7243	12-BIT SERIAL DACPORT
AD7244N	DIP24-300	AD7242	DUAL 14-BIT SERIAL DACPORT
AD7244R	SO28WB	AD7242	DUAL 14-BIT SERIAL DACPORT
AD7245A	DIP24-300:SO24WB	AD7245A	12-BIT DACPORT
AD7245AP	PLCC28SQ:LCC28SQ	AD7245A	12-BIT DACPORT
AD7247	DIP24-300:SO24WB	AD7247	DUAL 12-BIT DACPORT

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD7248A	DIP20:SO20WB: PLCC20SQ	AD7248A	12-BIT DACPORT
AD741	TO-99:DIP8	OPAMP2-TRIM	HIGH ACCURACY OP AMP
AD743N	DIP8	OPAMP2-TRIM	ULTRALOW NOISE BIFET OP AMP
AD743R	SO16WB	OPAMP2-TRIM	ULTRALOW NOISE BIFET OP AMP
AD744	DIP8:SO8NB:TO- 99	OPAMP2-TRIM-C	PRECISION, 500NS SETTling BIFET OP AM
AD746	DIP8:SO8NB	OPAMP2	DUAL PRECISION 500NS SETTling BIFET O AMP
AD75004KN	DIP24-600	AD75004	QUAD 12-BIT D/A CONVERTER
AD75004KP	PLCC28SQ	AD75004	QUAD 12-BIT D/A CONVERTER
AD7501	DIP16	AD7501	8 CHANNEL ANALOG MULTIPLEX
AD7501SE	LCC20SQ	AD7501	8 CHANNEL ANALOG MULTIPLEX
AD7502	DIP16	AD7501	DUAL,4 CHANNEL ANALOG MULTIPLEX
AD7502SE	LCC20SQ	AD7501	DUAL,4 CHANNEL ANALOG MULTIPLEX
AD7503	DIP16	AD7501	8 CHANNEL ANALOG MULTIPLEX
AD7503SE	LCC20SQ	AD7501	8 CHANNEL ANALOG MULTIPLEX
AD7506	DIP28- 600:LCC28SQ	AD7506	16-CHANNEL ANALOG MULTIPLEXER
AD7507	DIP28- 600:LCC28SQ	AD7506	16-CHANNEL ANALOG MULTIPLEXER
AD7510D1	DIP16	FET-SW-SPST	PROTECTED ANALOG SWITCH (SPST)
AD7510D1P	PLCC20SQ:LCC2 0SQ	FET-SW-SPST	PROTECTED ANALOG SWITCH (SPST)
AD7511D1	DIP16	FET-SW-SPST	PROTECTED ANALOG SWITCH (SPST)
AD7511D1P	PLCC20SQ:LCC2 0SQ	FET-SW-SPST	PROTECTED ANALOG SWITCH (SPST)
AD7512D1	DIP14	FET-SW-SPDT	PROTECTED ANALOG SWITCH
AD7512D1P	PLCC20SQ:LCC2 0SQ	FET-SW-SPDT	PROTECTED ANALOG SWITCH
AD7524N	DIP16:SO16NB	AD7524	CMOS 8-BIT BUFFERED MULTIPLYING D/A CONVERTER

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD7524P	PLCC20SQ:LCC20SQ	AD7524	CMOS 8-BIT BUFFERED MULTIPLYING D/A CONVERTER
AD7528	DIP20:SO20WB:PLCC20SQ	AD7528	DUAL 8-BIT MULTIPLYING CMOS D/A CONVERTER
AD7533N	DIP16:SO16WB	AD7533	CMOS LOW-COST 10-BIT MULTIPLYING D/A CONVERTER
AD7533P	PLCC20SQ:LCC20SQ	AD7533	CMOS LOW-COST 10-BIT MULTIPLYING D/A CONVERTER
AD7534	DIP20:PLCC20SQ	AD7534	MICROPROCESSOR COMPATIBLE 14-BIT DAC
AD7535	DIP28-600:PLCC28SQ	AD7535	MICROPROCESSOR COMPARTIBLE 14-BIT DAC
AD7536	DIP28-600:PLCC28SQ	AD7536	MICROPROCESSOR COMPATIBLE 14-BIT DAC
AD7537	DIP24-300	AD7537	DUAL 12-BIT DAC (8+4)
AD7537P	PLCC28SQ:LCC28SQ	AD7537	DUAL 12-BIT DAC (8+4)
AD7538	DIP24-300:SO24WB	AD7538	MICROPROCESSOR COMPATIBLE 14-BIT DAC
AD7541AN	DIP18	AD7541A	CMOS 12-BIT MULTIPLYING D/A CONVERTER
AD7541AP	PLCC20SQ:LCC20SQ	AD7541A	CMOS 12-BIT MULTIPLYING D/A CONVERTER
AD7542N	DIP16	AD7542	12-BIT (4-BIT NIBBLE) CMOS D/A CONVERTER
AD7542P	PLCC20SQ:LCC20SQ	AD7542	12-BIT (4-BIT NIBBLE) CMOS D/A CONVERTER
AD7543N	DIP16:SO16WB	AD7543	12-BIT SERIAL IN MULTIPLYING D/A CONVERTER
AD7543P	PLCC20SQ:LCC20SQ	AD7543	12-BIT SERIAL IN MULTIPLYING D/A CONVERTER
AD7545	DIP20:PLCC20SQ	AD7545	12-BIT MULTIPLYING CMOS D/A CONVERTER
AD7545A	DIP20:PLCC20SQ	AD7545	12-BIT MULTIPLYING CMOS D/A CONVERTER

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD7547	DIP24-300:SO24WB	AD7547	PARALLEL LOADING, DUAL 12-BIT DAC
AD7547P	PLCC28SQ:LCC28SQ	AD7547	PARALLEL LOADING, DUAL 12-BIT DAC
AD7548	DIP20:SO20WB:PLCC20SQ	AD7548	CMOS 8-BIT COMAPTIBLE, 12-BIT D/A CONVERTER
AD7549	DIP20:PLCC20SQ	AD7549	DUAL 12-BIT DAC
AD7568	QFP44-5	AD7568	OCTAL 12-BIT DAC
AD7569	DIP24-300:SO24WB	AD7569	COMPLETE,8-BIT ANALOG I/O SYSTEM
AD7569P	PLCC28SQ:LCC28SQ	AD7569	COMPLETE,8-BIT ANALOG I/O SYSTEM
AD7572	DIP24-300	AD7572	HIGH SPEED 12-BIT ADC
AD7572A	DIP24-300:SO24WB	AD7572	HIGH SPEED 12-BIT ADC
AD7572P	PLCC28SQ:LCC28SQ	AD7572	HIGH SPEED 12-BIT ADC
AD7574	DIP18	AD7574	CMOS, 8-BIT ADC
AD7575	DIP18	AD7575	8-BIT ADC WITH TRACK/HOLD
AD7575P	PLCC20SQ:LCC20SQ	AD7575	8-BIT ADC WITH TRACK/HOLD
AD7578	DIP24-300	AD7578	12-BIT SUCCESSIVE APPROXIMATION ADC
AD7579	DIP24-300	AD7579	10-BIT SAMPLING A/D CONVERTER
AD7579P	PLCC28SQ:LCC28SQ	AD7579	10-BIT SAMPLING A/D CONVERTER
AD7580	DIP24-300	AD7580	10-BIT SAMPLING A/D CONVERTER
AD7580P	PLCC28SQ:LCC28SQ	AD7580	10-BIT SAMPLING A/D CONVERTER
AD7581	DIP28-600	AD7581	8-BIT, 8-CHANNEL DAS
AD7582	DIP28-600:PLCC28SQ	AD7582	CMOS, 12-BIT SUCCESSIVE APPROXIMATION ADC
AD7586	DIP28-600:PLCC28SQ	AD7586	12-BIT, 1 MICROSECOND, ADC

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD7590D1	DIP16	AD7590D1	ANALOG SWITCH WITH DATA LATCH (SPS
AD7590D1P	PLCC20SQ:LCC20SQ	AD7590D1	ANALOG SWITCH WITH DATA LATCH (SPS
AD7591D1	DIP16	AD7590D1	ANALOG SWITCH WITH DATA LATCH (SPS
AD7591D1P	PLCC20SQ:LCC20SQ	AD7590D1	ANALOG SWITCH WITH DATA LATCH (SPS
AD7592D1	DIP14	AD7592D1	ANALOG SWITCH WITH DATA LATCH (SPD
AD7592D1KP	PLCC20SQ	AD7592D1	ANALOG SWITCH WITH DATA LATCH (SPD
AD7628	DIP20:SO20WB:PLCC20SQ	AD7628	DUAL 8-BIT MULTIPLYING CMOS D/A CONVERTER
AD766	DIP16	AD766	16-BIT DSP DACPORT
AD7669	DIP28-600:SO28WB:PLCC28SQ	AD7669	COMPLETE,8-BIT ANALOG I/O SYSTEM
AD767	DIP24-300	AD767	MICROPROCESSOR COMPATIBLE 12-BIT D CONVERTER
AD7672	DIP24-300	AD7672	HIGH SPEED 12-BIT ADC
AD7672P	PLCC28SQ:LCC28SQ	AD7672	HIGH SPEED 12-BIT ADC
AD767P	PLCC28SQ	AD767	MICROPROCESSOR COMPATIBLE 12-BIT D CONVERTER
AD770	DIP40-600	AD770	200MSPS, WIDEBAND, 8-BIT A/D CONVERT
AD7701	DIP20:SO20WB	AD7701	16-BIT, SERIAL, A/D CONVERTER
AD7703	DIP20:SO20WB	AD7701	20-BIT, SERIAL, A/D CONVERTER
AD773	DIP28-600	AD773	10-BIT, 18MSPS, A/D CONVERTER
AD774B	DIP28-600:SO28WB:DIP28-300	AD574	12-BIT A/D CONVERTER, 8US
AD7769	DIP28-600:PLCC28SQ	AD7769	ANALOG I/O PORT
AD7774	DIP28-600:PLCC28SQ	AD7774	ANALOG I/O PORT
AD779	DIP28-600:DIP28-300	AD779	14-BIT, 128 KSPS DAMPLING A/D CONVERTER

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD779J	PLCC44	AD779	14-BIT, 128 KSPS DAMPLING A/D CONVERTER
AD781	DIP8	S/H-AMP	700NS SAMPLE-AND-HOLD AMPLIFIER
AD7820	DIP20:SO20WB: PLCC20SQ	AD7820	8-BIT ADC WITH TRACK/HOLD FUNCTION
AD7821	DIP20:SO20WB: PLCC20SQ	AD7821	8-BIT ADC WITH TRACK/HOLD FUNCTION
AD7824	DIP24- 300:SO24WB	AD7824	4-CHANNEL, 8-BIT ADC
AD7828	DIP28- 600:PLCC28SQ	AD7828	8-CHANNEL, 8-BIT ADC
AD783	DIP8	S/H-AMP	250NS SAMPLE-AND-HOLD AMPLIFIER
AD7837	DIP24- 300:SO24WB	AD7837	DUAL 12-BIT MDAC
AD7840	DIP24-300	AD7840	COMPLETE 14-BIT DAC (SERIAL AND PARALLEL)
AD7840P	PLCC28SQ	AD7840	COMPLETE 14-BIT DAC (SERIAL AND PARALLEL)
AD7845	DIP24- 300:SO24WB	AD7845	COMPLETE 12-BIT MULTIPLYING DAC
AD7845P	PLCC28SQ:LCC2 8SQ	AD7845	COMPLETE 12-BIT MULTIPLYING DAC
AD7846	DIP28- 600:PLCC28SQ	AD7846	16-BIT VOLTAGE OUTPUT DAC
AD7847	DIP24- 300:SO24WB	AD7847	DUAL 12-BIT MDAC
AD7848	DIP28- 600:PLCC28SQ	AD7848	COMPLETE 12-BIT DAC WITH DSP INTERFACE
AD7868	DIP24-300	AD7868	COMPLETE, 12-BIT ANALOG I/O SYSTEM
AD7868R	SO28WB	AD7868	COMPLETE, 12-BIT ANALOG I/O SYSTEM
AD7869	DIP24-300	AD7868	COMPLETE, 14-BIT ANALOG I/O SYSTEM
AD7869R	SO28WB	AD7868	COMPLETE, 14-BIT ANALOG I/O SYSTEM
AD7870	DIP24-300	AD7870	12-BIT, 100KHZ, SAMPLING ADC
AD7870P	PLCC28SQ	AD7870	12-BIT, 100KHZ, SAMPLING ADC

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD7871	DIP28-600:PLCC28SQ	AD7871	14-BIT, SAMPLING ADC
AD7872	DIP16:SO16WB	AD7872	14-BIT, SERIAL, SAMPLING ADC
AD7874	DIP28-600:SO28WB:LC C28SQ	AD7874	4-CHANNEL, 12-BIT SIMULTANEOUS SAMPLING ADC
AD7875	DIP24-300	AD7870	12-BIT, 100KHZ, SAMPLING ADC
AD7875P	PLCC28SQ	AD7870	12-BIT, 100KHZ, SAMPLING ADC
AD7876	DIP24-300:SO24WB	AD7870	12-BIT, 100KHZ, SAMPLING ADC
AD7878	DIP28-600:PLCC28SQ	AD7878	12-BIT, 100KHZ, SAMPLING ADC WITH DSP INTERFACE
AD7880	DIP24-300:SO24WB	AD7880	+5V, 12-BIT SAMPLING ADC
AD7886	DIP28-600:PLCC28SQ	AD7886	12-BIT, 750KHZ, SAMPLING ADC
AD790	DIP8	AD790	FAST, PRECISION COMPARATOR
AD827N	DIP8	OPAMP2	DUAL HIGH SPEED, LOW POWER OP AMP
AD827R	SO16WB	OPAMP2	DUAL HIGH SPEED, LOW POWER OP AMP
AD828	DIP8:SO8M1:SO8NB	OPAMP2	
AD829	DIP8:SO8NB	OPAMP2-TRIM-C	HIGH SPEED, LOW NOISE VIDEO OP AMP
AD840E	LCC20SQ	OPAMP2-TRIM	WIDEBAND, FAST SETTTLING OP AMP
AD840N	DIP14	OPAMP2-TRIM	WIDEBAND, FAST SETTTLING OP AMP
AD841E	LCC20SQ	OPAMP2-TRIM	WIDEBAND, UNITY-GAIN STABLE, FAST SETTTLING OP AMP
AD841H	TO-8	OPAMP2-TRIM	WIDEBAND, UNITY-GAIN STABLE, FAST SETTTLING OP AMP
AD841N	DIP14	OPAMP2-TRIM	WIDEBAND, UNITY-GAIN STABLE, FAST SETTTLING OP AMP
AD842E	LCC20SQ	OPAMP2-TRIM	WIDEBAND, HIGH OUTPUT CURRENT, FAST SETTTLING OP AMP
AD842H	TO-8	OPAMP2-TRIM	WIDEBAND, HIGH OUTPUT CURRENT, FAST SETTTLING OP AMP

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD842N	DIP14	OPAMP2-TRIM	WIDEBAND, HIGH CURRENT OUTPUT, FAST SETTLING OP AMP
AD843E	LCC20SQ	OPAMP2-TRIM	34MHZ, CBFET FAST SETTLING OP AMP
AD843H	TO-8	OPAMP2-TRIM	34MHZ, CBFET, FAST SETTLING OP AMP
AD843N	DIP8	OPAMP2-TRIM	34MHZ, CBFET, FAST SETTLING OP AMP
AD844N	DIP8	OPAMP2-TRIM-C	60MHZ, 2000V/US OP AMP
AD844R	SO16WB	OPAMP2-TRIM-C	60MHZ, 2000V/US OP AMP
AD845	DIP8	OPAMP2-TRIM	PRECISION, 16MHZ CBFET OP AMP
AD846	DIP8	OPAMP-C	450V/us, PRECISION, CURRENT-FEEDBACK OP AMP
AD847	DIP8:SO8NB	OPAMP2-TRIM	HIGH-SPEED, LOW POWER OP AMP
AD848	DIP8:SO8NB	OPAMP2-TRIM	HIGH-SPEED, LOW POWER OP AMP
AD849	DIP8:SO8NB	OPAMP2-TRIM	HIGH-SPEED, LOW POWER OP AMP
AD9000	DIP16	AD9000	HIGH SPEED, ECL, 6-BIT A/D CONVERTER
AD9000SE	LCC28SQ	AD9000	HIGH SPEED, ECL, 6-BIT A/D CONVERTER
AD9002	DIP28-600:PLCC28SQ	AD9002	ECL, HIGH SPEED, 8-BIT A/D CONVERTER
AD9003	M-40	AD9003	12-BIT, 1MSPS A/D CONVERTER
AD9005A	M-46	AD9005A	112-BIT, 10MSPS A/D CONVERTER
AD9006	Z-68:LCC68SQ	AD9006	HIGH SPEED, ECL, 6-BIT A/D CONVERTER
AD9012	DIP28-600:PLCC28SQ	AD9012	TTL, HIGH SPEED, 8-BIT A/D CONVERTER
AD9016	Z-68:LCC68SQ	AD9016	HIGH SPEED, ECL, 6-BIT A/D CONVERTER
AD9020	Z-68:LCC68SQ	AD9020	10-BIT, 60 MSPS A/D CONVERTER
AD9048	DIP28-600:PLCC28SQ	AD9048	8-BIT VIDEO A/D CONVERTER
AD9058	PLCC44	AD9058	DUAL, 8-BIT 50 MSPS A/D CONVERTER
AD9058D	DIP48-600	AD9058D	DUAL, 8-BIT 50 MSPS A/D CONVERTER
AD9060	Z-68:LCC68SQ	AD9060	10-BIT, 75 MSPS A/D CONVERTER
AD9100	DIP20	AD9100	ULTRAHIGH SPEED, TRACK-AND-HOLD AM
AD9300	DIP16	AD9300	4X1 WIDEBAND VIDEO MULTIPLEXER



**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD9300P	PLCC20SQ:LCC20SQ	AD9300	4X1 WIDEBAND VIDEO MULTIPLEXER
AD9500BP	PLCC28SQ	AD9500	DIGITALLY PROGRAMMABLE DELAY GENERATOR
AD9500Q	DIP24-300	AD9500	DIGITALLY PROGRAMMABLE DELAY GENERATOR
AD9500TE	LCC28SQ	AD9500	DIGITALLY PROGRAMMABLE DELAY GENERATOR
AD9501	DIP20:PLCC20SQ	AD9501	DIGITALLY PROGRAMMABLE DELAY GENERATOR
AD9610	TO-8	OPAMP2-TRIM-C	WIDE BANDWIDTH, FAST SETTLING OP AMP
AD9617	DIP8:SO8NB	OPAMP2	LOW DISTORTION, PRECISION WIDE BANDWIDTH OP AMP
AD9618	DIP8:SO8NB	OPAMP2	LOW DISTORTION, PRECISION WIDE BANDWIDTH OP AMP
AD9618Z	Z-8	OPAMP	LOW DISTORTION, PRECISION WIDE BANDWIDTH OP AMP
AD9620	DIP8	BUFFER	LOW DISTORTION,600 MHZ, CLOSED LOOP BUFFER AMP
AD9630	DIP8:SO8NB	BUFFER	LOW DISTORTION,750 MHZ, CLOSED LOOP BUFFER AMP
AD9630Z	Z-8	BUFFER	LOW DISTORTION,750 MHZ, CLOSED LOOP BUFFER AMP
AD96685	DIP16:SO16WB	96685	ULTRAFAST COMPARATOR
AD96685H	TO-100	96685	ULTRAFAST COMPARATOR
AD96685P	PLCC20SQ	96685	ULTRAFAST COMPARATOR
AD96687	DIP16:SO16WB	COMPARE-LE	DUAL ULTRAFAST COMPARATORS
AD96687P	PLCC20SQ	COMPARE-LE	DUAL ULTRAFAST COMPARATORS
AD9696	DIP8:SO8NB	COMPARE	ULTRAFAST TTL COMPARATOR
AD9696H	TO-100	COMPARE	ULTRAFAST TTL COMPARATOR
AD9698	DIP16	COMPARE	ULTRAFAST TTL COMPARATOR
AD9698R	SO16WB	COMPARE	ULTRAFAST TTL COMPARATOR
AD9701Q	DIP22-400	AD9701	250MSPS VIDEO DAC

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AD9701SE	LCC28SQ	AD9701SE	250MSPS VIDEO DAC
AD9712	DIP28-600:PLCC28SQ	AD9712	12-BIT 100 MSPS D/A CONVERTER
AD9713	DIP28-600:PLCC28SQ	AD9713	12-BIT 80MSPS D/A CONVERTER
AD9768	DIP18	AD9768	ULTRAHIGH SPEED D/A CONVERTER
AD9768SE	LCC20SQ	AD9768	ULTRAHIGH SPEED D/A CONVERTER
ADG201A	DIP16:SO16NB	FET-SW-SPST	QUAD SPST SWITCH (NO)
ADG201AP	PLCC20SQ:LCC20SQ	FET-SW-SPST	QUAD SPST SWITCH (NO)
ADG201HS	DIP16:SO16NB	FET-SW-SPST	HIGH SPEED, QUAD SPST SWITCH (NO)
ADG201HSP	PLCC20SQ:LCC20SQ	FET-SW-SPST	QUAD SPST SWITCH (NO)
ADG211A	DIP16:SO16NB	FET-SW-SPST	QUAD SPST SWITCH (NO)
ADG211AP	PLCC20SQ:LCC20SQ	FET-SW-SPST	QUAD SPST SWITCH (NO)
ADG212A	DIP16:SO16NB	FET-SW-SPST-NC	QUAD SPST SWITCH (NO)
ADG212AP	PLCC20SQ:LCC20SQ	FET-SW-SPST-NC	QUAD SPST SWITCH (NO)
ADG221	DIP16:SO16NB	AD7590D1	ANALOG SWITCH WITH DATA LATCH (SPS
ADG221P	PLCC20SQ:LCC20SQ	AD7590D1	ANALOG SWITCH WITH DATA LATCH (SPS
ADG222	DIP16:SO16NB	AD7590D1	ANALOG SWITCH WITH DATA LATCH (SPS
ADG222P	PLCC20SQ:LCC20SQ	AD7590D1	ANALOG SWITCH WITH DATA LATCH (SPS
ADG506A	DIP28-600:SO28WB:PLCC28SQ	ADG506A	16-CHANNEL ANALOG MULTIPLEXER
ADG507A	DIP28-600:SO28WB:PLCC28SQ	ADG507A	DUAL, 8-CHANNEL ANALOG MULTIPLEXER
ADG508A	DIP16:SO16NB	ADG508A	8-CHANNEL ANALOG MULTIPLEXER
ADG508AP	PLCC20SQ:LCC20SQ	ADG508A	8-CHANNEL ANALOG MULTIPLEXER

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
ADG509A	DIP16:SO16NB	ADG509A	DUAL, 4-CHANNEL ANALOG MULTIPLEXER
ADG509AP	PLCC20SQ:LCC20SQ	ADG509A	DUAL, 4-CHANNEL ANALOG MULTIPLEXER
ADG526A	DIP28-600:SO28WB:PLCC28SQ	ADG526A	16-CHANNEL LATCHED ANALOG MULTIPLEXER
ADG527A	DIP28-600:SO28WB:PLCC28SQ	ADG527A	DUAL, 8-CHANNEL LATCHED ANALOG MULTIPLEXER
ADG528A	DIP18	ADG528A	8-CHANNEL, LATCHED ANALOG MULTIPLEXER
ADG528AP	PLCC20SQ:LCC20SQ	ADG528A	8-CHANNEL, LATCHED ANALOG MULTIPLEXER
ADG529A	DIP18	ADG529A	DUAL, 4-CHANNEL, LATCHED ANALOG MULTIPLEXER
ADG529AP	PLCC20SQ:LCC20SQ	ADG529A	DUAL, 4-CHANNEL, LATCHED ANALOG MULTIPLEXER
ADOP-07	DIP8:SO8NB:TO-99	OPAMP2-TRIM	ULTRALOW OFFSET VOLTAGE OP AMP
ADOP-27	DIP8:TO-99	OPAMP2-TRIM	ULTRALOW NOISE PRECISION OP AMP
ADOP-37	DIP8:TO-99	OPAMP2-TRIM	ULTRALOW NOISE, HIGH SPEED, PRECISION OP AMP
ADV101KN	DIP40-600	ADV101	CMOS, TRIPLE 8-BIT VIDEO DAC
ADV101KP	PLCC44	ADV101P	CMOS, TRIPLE 8-BIT VIDEO DAC
ADV453KN	DIP40-600	ADV453	CMOS 256X24 COLOR PALETTE RAM-DAC
ADV453KP	PLCC44	ADV453P	CMOS 256X24 COLOR PALETTE RAM-DAC
ADV471KP	PLCC44	ADV478	256X24 COLOR PALETTE RAM-DAC
ADV476KN	DIP28-600	ADV476	CMOS 256X18 COLOR PALETTE RAM-DAC
ADV476KP	PLCC44	ADV476KP	CMOS 256X18 COLOR PALETTE RAM-DAC
ADV478KP	PLCC44	ADV478	256X24 COLOR PALETTE RAM-DAC
ADV7120KN	DIP40-600	ADV101	CMOS, TRIPLE 8-BIT VIDEO DAC
ADV7120KP	PLCC44	ADV101P	CMOS, TRIPLE 8-BIT VIDEO DAC
ADV7121	DIP40-600	ADV7121	TRIPLE 10-BIT VIDEO DAC

**Table 4-1. Analogdev Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
ADV7122	PLCC44	ADV7122	TRIPLE 10-BIT VIDEO DAC
ADV7141	PLCC44	ADV7141	CONTINUOUS EDGE GRAPHICS, RAM-DAC
ADV7146	DIP28-600	ADV7146	CONTINUOUS EDGE GRAPHICS, RAM-DAC
ADV7148	PLCC44	ADV7141	CONTINUOUS EDGE GRAPHICS, RAM-DAC
ADVFC32H	TO-100	ADVFC32N	V/F AND F/V CONVERTER
ADVFC32N	DIP14	ADVFC32N	V/F AND F/V CONVERTER
DAC-8412	DIP28-600:PLCC28SQ:L CC28SQ	DAC-8412	QUAD, 12-BIT DAC, VOLTAGE OUTPUT WITH READBACK
DAC-8413	DIP28-600:PLCC28SQ:L CC28SQ	DAC-8412	QUAD, 12-BIT DAC, VOLTAGE OUTPUT WITH READBACK
DAC-8426	DIP20:SO20WB: PLCC20SQ	AD7226	QUAD 8-BIT CMOS D/A CONVERTER
DAC-8840	DIP24-300:SO24WB	DAC-8840	8-BIT, OCTAL, 4 QUADRANT, CMOS TRIMDAC
DAC-8841	DIP24-300:SO24WB	DAC-8840	8-BIT, OCTAL, 4 QUADRANT, CMOS TRIMDAC
DAC80	DIP24-300:DIP24-600	DAC80	LOW COST 12-BIT D/A CONVERTER
DAC85	DIP24-600	DAC80	LOW COST 12-BIT D/A CONVERTER
DAC87	DIP24-600	DAC80	LOW COST 12-BIT D/A CONVERTER
SMP-04	DIP16:SO16NB	S/H-AMP	QUAD, CMOS, SAMPLE-AND-HOLD
SMP-08	DIP16:SO16NB	SMP-08	OCTAL SAMPLE-AND-HOLD WITH MULTIPLEXED INPUT
SMP-18	DIP16:SO16NB	SMP-08	OCTAL SAMPLE-AND-HOLD WITH MULTIPLEXED INPUT

## Chapter 5

# Connect Library

The following table lists all the part types in the connect sample library. This listing is based on the part types and lists any associated PCB Decals and Logic Decals. The associated PCB and/or Logic decals are not necessarily sourced from the same library as the part type.

**Table 5-1. Connect Library Part Types**

Part Type	PCB Decals	Logic Decals	Description
AMP1-10	AMP1-10	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 10 POS. HEADER
AMP1-100	AMP1-100	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 100 POS. HEADER
AMP1-20	AMP1-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER
AMP1-30	AMP1-30	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 30 POS. HEADER
AMP1-40	AMP1-40	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 40 POS. HEADER
AMP1-50	AMP1-50	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 50 POS. HEADER
AMP1-60	AMP1-60	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 60 POS. HEADER
AMP1-70	AMP1-70	CONIN:CONOUT:CONOUT1:CON_IO	SURFACE MOUNT 70 POS. HEADER
AMP1-80	AMP1-80	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 80 POS. HEADER
AMP1-90	AMP1-90	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 90 POS. HEADER
AMP2-10	AMP2-10	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 10 POS. HEADER
AMP2-100	AMP2-100	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 100 POS. HEADER
AMP2-20	AMP2-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER

**Table 5-1. Connect Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
AMP2-30	AMP2-30	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 30 POS. HEADER
AMP2-40	AMP2-40	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 40 POS. HEADER
AMP2-50	AMP2-50	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 50 POS. HEADER
AMP2-60	AMP2-60	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 60 POS. HEADER
AMP2-70	AMP2-70	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 70 POS. HEADER
AMP2-80	AMP2-80	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 80 POS. HEADER
AMP2-90	AMP2-90	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 90 POS. HEADER
BERG1-10	BERG1-10	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 10 POS. HEADER
BERG1-14	BERG1-14	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 14 POS. HEADER
BERG1-16	BERG1-16	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 16 POS. HEADER
BERG1-20	BERG1-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER
BERG1-26	BERG1-26	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 26 POS. HEADER
BERG1-34	BERG1-34	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 34 POS. HEADER
BERG1-40	BERG1-40	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 40 POS. HEADER
BERG1-50	BERG1-50	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 50 POS. HEADER
BERG1-60	BERG1-60	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 60 POS. HEADER
BERG2-10	BERG2-10	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 10 POS. HEADER
BERG2-14	BERG2-14	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 14 POS. HEADER

**Table 5-1. Connect Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BERG2-16	BERG2-16	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 16 POS. HEADER
BERG2-20	BERG2-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER
BERG2-26	BERG2-26	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 26 POS. HEADER
BERG2-34	BERG2-34	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 34 POS. HEADER
BERG2-40	BERG2-40	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 40 POS. HEADER
BERG2-50	BERG2-50	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 50 POS. HEADER
BERG2-60	BERG2-60	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 60 POS. HEADER
BERG3-10	BERG3-10	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 10 POS. HEADER
BERG3-13	BERG3-13	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 13 POS. HEADER
BERG3-17	BERG3-17	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 17 POS. HEADER
BERG3-20	BERG3-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER
BERG3-25	BERG3-25	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 25 POS. HEADER
BERG3-30	BERG3-30	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 30 POS. HEADER
BERG3-5	BERG3-5	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 5 POS. HEADER
BERG3-7	BERG3-7	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 7 POS. HEADER
BERG3-8	BERG3-8	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 8 POS. HEADER
BERG4-13	BERG4-13	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 13 POS. HEADER
BERG4-17	BERG4-17	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 17 POS. HEADER

**Table 5-1. Connect Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BERG4-20	BERG4-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER
BERG4-25	BERG4-25	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 25 POS. HEADER
BERG4-30	BERG4-30	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 30 POS. HEADER
CON-26P-ED	CON-26P-ED	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	26 PIN EDGE CONNECTOR
CON-41612-32	DIN41612-32	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	DIN41612 PCB CONNECTOR 32-PIN MALE A & B ROWS
CON-41612-64	DIN41612-64	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	DIN41612 PCB CONNECTOR, 64PIN MALE A& B ROWS
CON-41612-64B	DIN41612-64B	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	DIN41612 PCB CONNECTOR 64 PIN A& B ROWS
CON-41612-96	DIN41612-96	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	DIN41612 PCB CONNECTOR 96-PIN MALE A,B,C ROWS
CON-60P-100-ED	CON-60P-100-ED	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	60 PIN .100 SPACED EDGE CONNECTOR
CON-86P-156-ED	CON-86P-156-ED	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	86 PIN .156 SPACED EDGE CONNECTOR
CON-AMP-MJ4	AMP-MJ4	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	AMP 4 WAY MODULAR JACK HORIZ FLANGELESS WITH PANEL STOP
CON-AMP-MJ6	AMP-MJ6	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	AMP 6 WAY MODULAR JACK HORIZ FLANGELESS WITH PANEL STOP
CON-AMP-MJ6-SL	AMP-MJ6-SL	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	AMP 6 WAY LOW PROFILES SHIELDED MODULAR JACK
CON-AMP-MJ8	AMP-MJ8	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	AMP 8 WAY MODULAR JACK HORIZ FLANGELESS WITH PANEL STOP
CON-AMP-MJ8-SL	AMP-MJ8-SL	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	AMP 8 WAY LOW PROFILE HORIZ SHIELDED MODULAR JACK
CON-BARREL	CON-BARREL	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	BARREL DC POWER CONNECTOT, PC MOUNTED RIGHT ANGLE
CON-DB15HF	DB15-HF	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	DB15 HORIZ FEMALE PCB CONNECTOR AMP HD-20 SERIES
CON-DB15HM	DB15-HM	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	DB15 HORIZ MALE PCB CONNECTOR AMP HD-20 SERIES



**Table 5-1. Connect Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
CON-DB25HF	DB25-HF	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	DB25 HORIZ FEMALE PCB CONNECTOR AMP HD-20 SERIES
CON-DB25HM	DB25-HM	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	DB25 HORIZ MALE PCB CONNECTOR AMP HD-20 SERIES
CON-DB9HF	DB9-HF	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	DB9 HORIZ FEMALE PCB CONNECTOR AMP HD-20 SERIES
CON-DB9HM	DB9-HM	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	DB9 HORIZ MALE PCB CONNECTOR AMP HD-20 SERIES
CON-DIN5	DIN5	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	CIRCULAR 5-PIN DIN FEMALE PCB CONNECTOR PREH
CON-DIN6	DIN6	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	CIRCULAR 6-PIN DIN FEMALE PCB CONNECTOR PREH SER
CON-DIN7	DIN7	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	CIRCULAR 7-PIN DIN PCB CONNECTOR
CON-DIN7B	DIN7B	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	CIRCULAR 7-PIN FEMALE PCB CONNECTOR
CON-MATENLOK-2P	CON-MATENLOK-2P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	2 PIN PCB MOUNT SOCKET, 0.2" CENTERS
CON-RIB10HL	QIKHD-10H	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIBBON CABLE 10-PIN MALE HORIZONTAL LATCHED
CON-RIB10V	HD-10V	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIBBON CABLE 10-PIN VERTICLE MALE NO LATCHES
CON-RIB14HL	QIKHD-14H	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIBBON CABLE 14-PIN MALE HORIZ LATCHED
CON-RIB20HL	QIKHD-20H	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIBBON CABLE 20-PIN MALE HORIZ LATCHED
CON-RIB26HL	QIKHD-26H	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIBBON CABLE 26-PIN MALE HORIZONTAL LATCHED
CON-RIB34HL	QIKHD-34H	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIBBON CABLE 34-PIN MALE HORIZONTAL LATCHED
CON-RIB40HL	QIKHD-40H	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIBBON CABLE 40-PIN MALE HORIZONTAL LATCHED
CON-RIB50HL	QIKHD-50H	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIBBON CABLE 50-PIN MALE HORIZONTAL LATCHED
CON-RIB60HL	QIKHD-60H	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIBBON CABLE 60-PIN MALE HORIZONTAL LATCHED

**Table 5-1. Connect Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CON-SIP-10P	SIP-10P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 10 PIN SIP HEADER .100 CENTERS
CON-SIP-11P	SIP-11P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 11 PIN SIP HEADER .100 CENTERS
CON-SIP-12P	SIP-12P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 12 PIN SIP HEADER .100 CENTERS
CON-SIP-13P	SIP-13P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 13 PIN SIP HEADER .100 CENTERS
CON-SIP-14P	SIP-14P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 14 PIN SIP HEADER .100 CENTERS
CON-SIP-15P	SIP-15P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 15 PIN SIP HEADER .100 CENTERS
CON-SIP-16P	SIP-16P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 16 PIN SIP HEADER .100 CENTERS
CON-SIP-17P	SIP-17P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 17 PIN SIP HEADER .100 CENTERS
CON-SIP-18P	SIP-18P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 18 PIN SIP HEADER .100 CENTERS
CON-SIP-19P	SIP-19P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 19 PIN SIP HEADER .100 CENTERS
CON-SIP-1P	SIP-1P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 1 PIN CONNECTOR (PROBE)
CON-SIP-20P	SIP-20P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 20 PIN SIP HEADER .100 CENTERS
CON-SIP-2P	SIP-2P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 2 PIN SIP HEADER .100 CENTERS
CON-SIP-3P	SIP-3P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 3 PIN SIP HEADER .100 CENTERS
CON-SIP-4P	SIP-4P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 4 PIN SIP HEADER .100 CENTERS
CON-SIP-5P	SIP-5P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 5 PIN SIP HEADER .100 CENTERS
CON-SIP-6P	SIP-6P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 6 PIN SIP HEADER .100 CENTERS
CON-SIP-7P	SIP-7P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 7 PIN SIP HEADER .100 CENTERS

**Table 5-1. Connect Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CON-SIP-8P	SIP-8P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC 8 PIN SIP HEADER .100 CENTERS
CON-SIP10-156	SIP-10P-156	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC .156 SPACED 10-PIN SIP CONNECTOR M/F VRT.
CON-SIP2-156	SIP-2P-156	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC .156 SPACED 2-PIN SIP CONNECTOR M/F VRT.
CON-SIP3-156	SIP-3P-156	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC .156 SPACED 3-PIN SIP CONNECTOR M/F VRT.
CON-SIP4-156	SIP-4P-156	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC .156 SPACED 4-PIN SIP CONNECTOR M/F VRT.
CON-SIP5-156	SIP-5P-156	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC .156 SPACED 5-PIN SIP CONNECTOR M/F VRT.
CON-SIP6-156	SIP-6P-156	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC .156 SPACED 6-PIN SIP CONNECTOR M/F VRT.
CON-SIP7-156	SIP-7P-156	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC .156 SPACED 7-PIN SIP CONNECTOR M/F VRT.
CON-SIP9-156	SIP-9P-156	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	GENERIC .156 SPACED 9-PIN SIP CONNECTOR M/F VRT.
CONRA-10P-200	CONRA-10P-200	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIGHT ANGLE 10-PIN M/F HORIZONTAL PCB CONNECTOR
CONRA-2P-200	CONRA-2P-200	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIGHT ANGLE 2-PIN M/F HORIZONTAL PCB CONNECTOR
CONRA-3P-200	CONRA-3P-200	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIGHT ANGLE 3-PIN M/F HORIZONTAL PCB CONNECTOR
CONRA-4P-200	CONRA-4P-200	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIGHT ANGLE 4-PIN M/F HORIZONTAL PCB CONNECTOR
CONRA-5P-200	CONRA-5P-200	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIGHT ANGLE 5-PIN M/F HORIZONTAL PCB CONNECTOR
CONRA-6P-200	CONRA-6P-200	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIGHT ANGLE 6-PIN M/F HORIZONTAL PCB CONNECTOR
CONRA-7P-200	CONRA-7P-200	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIGHT ANGLE 7-PIN M/F HORIZONTAL PCB CONNECTOR
CONRA-8P-200	CONRA-8P-200	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIGHT ANGLE 8-PIN M/F HORIZONTAL PCB CONNECTOR
CONRA-9P-200	CONRA-9P-200	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	RIGHT ANGLE 9-PIN M/F HORIZONTAL PCB CONNECTOR

**Table 5-1. Connect Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
DCON25F	DCON25F	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	25 PIN D-TYPE CONNECTOR FEMALE
DCON25M	DCON25M	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	25 PIN D-TYPE CONNECTOR MALE
DCON9F	DCON9F	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	NINE PIN D-TYPE CONNECTOR FEMALE
DCON9M	DCON9M	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	NINE PIN D-TYPE CONNECTOR MALE
EISAA	EISAA	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	31 PINS; SECTION A OF AN EISA EDGE CONNECTOR
EISAB	EISAB	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	31 PINS; SECTION B OF AN EISA EDGE CONNECTOR
EISAC	EISAC	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	18 PINS; SECTION C OF AN EISA EDGE CONNECTOR
EISAD	EISAD	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	18 PINS; SECTION D OF AN EISA EDGE CONNECTOR
EISAE	EISAE	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	31 PINS; SECTION E OF AN EISA EDGE CONNECTOR
EISAF	EISAF	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	31 PINS; SECTION F OF AN EISA EDGE CONNECTOR
EISAG	EISAG	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	19 PINS; SECTION G OF AN EISA EDGE CONNECTOR
EISAH	EISAH	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	19 PINS; SECTION H OF AN EISA EDGE CONNECTOR
HDR_POL50	HDR_POL50	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	POLARIZED FIFTY PIN HEADER; 100 MIL CENTERS
HEADER02	SIP-2P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	TWO PIN INLINE HEADER; 100 MIL CENTERS
HEADER02-1	SIP-2P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	TWO PIN HEADER; 100 MIL CENTERS; INLINE
HEADER03	SIP-3P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	THREE PIN INLINE HEADER; 100 MIL CENTERS
HEADER04	SIP-4P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	FOUR PIN INLINE HEADER; 100 MIL CENTERS
HEADER05	SIP-5P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	FIVE PIN INLINE HEADER; 100 MIL CENTERS

**Table 5-1. Connect Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
HEADER06	SIP-6P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SIX PIN INLINE HEADER; 100 MIL CENTERS
HEADER07	SIP-7P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SEVEN PIN INLINE HEADER; 100 MIL CENTERS
HEADER08	SIP-8P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	EIGHT PIN INLINE HEADER; 100 MIL CENTERS
HEADER09	SIP-9P	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	NINE PIN INLINE HEADER; 100 MIL CENTERS
HEADER10	HEADER10	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	TEN PIN HEADER; 100 MIL CENTERS
HEADER14	HEADER14	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	FOURTEEN PIN HEADER; 100 MIL CENTERS
HEADER16	HEADER16	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SIXTEEN PIN HEADER; 100 MIL CENTERS
HEADER20	HEADER20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	TWENTY PIN HEADER; 100 MIL CENTERS
HEADER26	HEADER26	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	TWENTY-SIX PIN HEADER; 100 MIL CENTERS
HEADER34	HEADER34	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	THIRTY FOUR PIN HEADER; 100 MIL CENTERS
HEADER50	HEADER50	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	FIFTY PIN HEADER; 100 MIL CENTERS
METH1-10	METH1-10	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 10 POS. HEADER
METH1-14	METH1-14	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 14 POS. HEADER
METH1-16	METH1-16	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 16 POS. HEADER
METH1-20	METH1-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER
METH1-26	METH1-26	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 26 POS. HEADER
METH1-34	METH1-34	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 34 POS. HEADER
METH1-40	METH1-40	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 40 POS. HEADER

**Table 5-1. Connect Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
METH1-50	METH1-50	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 50 POS. HEADER
METH1-60	METH1-60	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 60 POS. HEADER
METH2-20	METH2-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER, VERTICAL ENTRY
METH2-30	METH2-30	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 30 POS. HEADER, VERTICAL ENTRY
METH2-40	METH2-40	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 40 POS. HEADER, VERTICAL ENTRY
MOLEX1-10	MOLEX1-10	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 10 POS. HEADER
MOLEX1-14	MOLEX1-14	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 14 POS. HEADER
MOLEX1-16	MOLEX1-16	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 16 POS. HEADER
MOLEX1-20	MOLEX1-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER
MOLEX1-26	MOLEX1-26	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 26 POS. HEADER
MOLEX1-34	MOLEX1-34	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 34 POS. HEADER
MOLEX1-40	MOLEX1-40	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 40 POS. HEADER
MOLEX1-50	MOLEX1-50	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 50 POS. HEADER
MOLEX1-60	MOLEX1-60	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 60 POS. HEADER
MOLEX2-10	MOLEX2-10	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 10 POS. HEADER
MOLEX2-14	MOLEX2-14	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 14 POS. HEADER
MOLEX2-16	MOLEX2-16	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 16 POS. HEADER
MOLEX2-20	MOLEX2-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER

**Table 5-1. Connect Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MOLEX2-26	MOLEX2-26	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 26 POS. HEADER
MOLEX2-34	MOLEX2-34	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 34 POS. HEADER
MOLEX2-40	MOLEX2-40	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 40 POS. HEADER
MOLEX2-50	MOLEX2-50	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 50 POS. HEADER
MOLEX2-60	MOLEX2-60	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 60 POS. HEADER
SAM1-10	SAM1-10	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 10 POS. HEADER
SAM1-14	SAM1-14	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 14 POS. HEADER
SAM1-16	SAM1-16	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 16 POS. HEADER
SAM1-20	SAM1-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER
SAM1-26	SAM1-26	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 26 POS. HEADER
SAM1-34	SAM1-34	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 34 POS. HEADER
SAM1-40	SAM1-40	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 40 POS. HEADER
SAM1-50	SAM1-50	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 50 POS. HEADER
SAM1-60	SAM1-60	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 60 POS. HEADER
SAM2-10	SAM2-10	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 10 POS. HEADER
SAM2-14	SAM2-14	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 14 POS. HEADER
SAM2-16	SAM2-16	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 16 POS. HEADER
SAM2-20	SAM2-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER

**Table 5-1. Connect Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
SAM4-10	SAM4-10	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 10 POS. HEADER, HORIZONTAL ENTRY
SAM4-14	SAM4-14	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 14 POS. HEADER, HORIZONTAL ENTRY
SAM4-16	SAM4-16	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 16 POS. HEADER, HORIZONTAL ENTRY
SAM4-20	SAM4-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER, HORIZONTAL ENTRY
SAM5-20	SAM5-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER, HORIZONTAL ENTRY
SAM5-30	SAM5-30	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 30 POS. HEADER, HORIZONTAL ENTRY
SAM5-40	SAM5-40	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 40 POS. HEADER, HORIZONTAL ENTRY
SAM6-20	SAM6-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER, VERTICAL ENTRY
SAM6-30	SAM6-30	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 30 POS. HEADER, VERTICAL ENTRY
SAM6-40	SAM6-40	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 40 POS. HEADER, VERTICAL ENTRY
TEKA1-10	TEKA1-10	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 10 POS. HEADER
TEKA1-14	TEKA1-14	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 14 POS. HEADER
TEKA1-16	TEKA1-16	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 16 POS. HEADER
TEKA1-20	TEKA1-20	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 20 POS. HEADER
TEKA1-26	TEKA1-26	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 26 POS. HEADER
TEKA1-34	TEKA1-34	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 34 POS. HEADER
TEKA1-40	TEKA1-40	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 40 POS. HEADER
TEKA1-50	TEKA1-50	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 50 POS. HEADER



**Table 5-1. Connect Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
TEKA1-60	TEKA1-60	CONIN:CONOUT:CONIN1:CONOUT1:CON_IO	SURFACE MOUNT 60 POS. HEADER



## Chapter 6

# Intel Library

The following table lists all the part types in the intel sample library. This listing is based on the part types and lists any associated PCB Decals and Logic Decals. The associated PCB and/or Logic decals are not necessarily sourced from the same library as the part type.

**Table 6-1. Intel Library Part Types**

Part Type	PCB Decals	Logic Decals	Description
27C020	DIP32-600	RE256K8:RE256K8-A	256K X 8 BIT CMOS EPROM
27C64	DIP28-600	RE8K8:RE8K8-A	8K X 8 BIT CMOS EPROM
80186	PGA-68P:LCC68SQ	DIP64	HIGH INTEGRATION 16-BIT MICROPROCESSOR
80188	PGA-68P:LCC68SQ	DIP64	HIGH INTEGRATION 16-BIT MICROPROCESSOR
80286	PGA-68P	80286	NMOS HIGH PERFORMANCE 16-BIT MICROPROCESSOR W/MEM MNGR
8031	DIP40-600	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER
8031AH	DIP40-600	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER
8032AH	DIP40-600	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER
8032BH	DIP40-600	8031	8-BIT MICROCOMPUTER W/8K BYTES OF EPROM PROG MEMORY
8035AHL	DIP40-600	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
8035H	DIP40-600	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
80386	PGA-132P	80386	32-BIT CHMOS MICROPROCESSOR WITH MEMORY MANAGER
8039AHL	DIP40-600	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
8039H	DIP40-600	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
8040AHL	DIP40-600	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER

**Table 6-1. Intel Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
8041AH	DIP40-600	8041	8-BIT, SINGLE CHIP NMOS MICROCOMPUTER W/ UNIVERSAL PPI
8042AH	DIP40-600	8042	UNIV PERIPHERAL INTERFACE 8-BIT MICROCOMPUTER
8044AH	DIP40-600	8031	HIGH PERFORMANCE 8-BIT MICROCONTROLLER W/SER COM CNTRLR
80486	PGA-168P	80486	I486 MICROPROCESSOR
8048AH	DIP40-600	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
8049AH	DIP40-600	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
8050	DIP40-600	8035AHL	8-BIT CONTROL-ORIENTED MICROCOMPUTER
8050AH	DIP40-600	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
8051	DIP40-600	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER 4K X 8 ROM
8051AH	DIP40-600	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER 4K X 8 ROM
8052	DIP40-600	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER 8K X 8 ROM
8052AH	DIP40-600	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER 8K X 8 ROM
8052BH	DIP40-600	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER 8K X 8 ROM
8080A	DIP40-600	8080A	8-BIT N-CHANNEL MICROPROCESSOR
8085AH	DIP40-600	8085AH	8-BIT HMOS MICROPROCESSOR
8086	DIP40-600	8086	16-BIT HMOS MICROPROCESSOR
8088	DIP40-600	8088	8-BIT HMOS MICROPROCESSOR
8094	DIP48-600	8094	MCS-96 48-PIN DIP
8095	DIP48-600	8094	MCS-96 48-PIN DIP
8095BH	DIP48-600	8094	MCS-96 48-PIN DIP
8095CH	DIP48-600	8094	MCS-96 48-PIN DIP
8096	PGA-68P	8096	MCS-96 68-PIN , PIN GRID ARRAY

**Table 6-1. Intel Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
8096BH	PGA-68P	8096	MCS-96 68-PIN , PIN GRID ARRAY
8097	PGA-68P	8096	MCS-96 68-PIN , PIN GRID ARRAY
8097BH	PGA-68P	8096	MCS-96 68-PIN , PIN GRID ARRAY
80C252	DIP40-600	80C252	SINGLE-CHIP 8-BIT MICROCONTROLLER
80C31AH	DIP40-600	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER
80C31BH	DIP40-600	8031	CMOS 8-BIT CONTROL-ORIENTED MICROCOMPUTER
80C32AH	DIP40-600	8031	CMOS 8-BIT CONTROL-ORIENTED MICROCOMPUTER
80C39	DIP40-600	8035AHL	CMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
80C48	DIP40-600	8035AHL	CMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
80C49	DIP40-600	8035AHL	CMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
80C51AH	DIP40-600	8031	CMOS CONTROL-ORIENTED MICROCOMPUTER 4K X 8 ROM
80C51BH	DIP40-600	80C252	CMOS SINGLE-CHIP 8-BIT MICROCOMPUTER PROG ROM
80C52AH	DIP40-600	8031	8-BIT CMOS MICROCOMPUTER 8K X 8 ROM
8155H	DIP40-600	8155H	2048-BIT STATIC HMOS RAM WITH I/O PORT AND TIMER
8156H	DIP40-600	8155H	2048-BIT STATIC HMOS RAM WITH I/O PORT AND TIMER
8185	DIP18	8185	1024 X 8-BIT STATIC RAM FOR MCS-85
8203	DIP40-600	8203	64K DYNAMIC RAM CONTROLLER
8206	PGA-68P	8206	ERROR DETECTION AND CORRECTION UNIT
82064	DIP40-600	82064	CMOS WINCHESTER DISK CONT W/ERROR DET. & CORRECT
8207	PGA-68P	8207	DUAL-PORT DYNAMIC RAM CONTROLLER
82072	DIP40-600	82072	CHMOS HIGH INTEGRATION FLOPPY DISK CONTROLLER
82188	DIP28-600	82188	INTEGRATED BUS CONTROLLER FOR 8086,8088,80186,80188

**Table 6-1. Intel Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
8224	DIP16	8224	CLOCK GENERATOR AND DRIVER FOR 8080 CPU
8228	DIP28-600	8228	SYSTEM CONTROLLER AND BUS DRIVER FOR 8080A CPU
82284	DIP18	82284	CLOCK DRIVER AND READY INTERFACE FOR iAPX 286
82288	DIP20	DIP18	BUS CONTROLLER FOR 80286 PROCESSORS
8231A	DIP24-600	8231	ARITHMETIC PROCESSING UNIT
8237A	DIP40-600	8237A	HIGH PERFORMANCE PROGRAMMABLE DMA CONTROLLER
8238	DIP28-600	8228	SYSTEM CONTROLLER AND BUS DRIVER FOR 8080A CPU
8243	DIP24-600	8243	MCS-48 INPUT/OUTPUT EXPANDER
8251A	DIP28-600	8251A	PROGRAMMABLE COMMUNICATION INTERFACE
8253	DIP24-600	8253	PROGRAMMABLE INTERVAL TIMER
8254	DIP24-600	8253	PROGRAMMABLE INTERVAL TIMER
8255A	DIP40-600	8255A	PROGRAMMABLE PERIPHERAL INTERFACE
8256AH	DIP40-600	8256AH	MULTIFUNCTION MICROPROCESSOR SUPPORT CONTROLLER
8257	DIP40-600	8257	PROGRAMMABLE DMA CONTROLLER
8259A	DIP28-600	8259A	CMOS PROGRAMMABLE INTERRUPT CONTROLLER
82716	PGA-68P:LCC68SQ	82716	VIDEO STORAGE AND DISPLAY DEVICE
8272A	DIP40-600	8272A	SINGLE/DOUBLE DENSITY FLOPPY DISK CONTROLLER
82730	PGA-68P	82730	TEXT COPROCESSOR
8275H	DIP40-600	8275	PROGRAMMABLE CRT CONTROLLER
8276H	DIP40-600	8276	SMALL SYSTEM CRT CONTROLLER
82786	PGA-88P	82786	CHMOS GRAPHICS COPROCESSOR
8279	DIP40-600	8279	PROGRAMMABLE KEYBOARD/DISPLAY INTERFACE

**Table 6-1. Intel Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
8284A	DIP18	8284	CLOCK GENERATOR AND DRIVER FOR 8086 8088 PROCESSORS
8288	DIP20	8288	BUS CONTROLLER
8289	DIP20	8289	BUS ARBITER
82C08	DIP48-600	82C08	CMOS DYNAMIC RAM CONTROLLER
82C55A	DIP40-600	8255A	CMOS PROGRAMMABLE PERIPHERAL INTERFACE
82C59A	DIP28-600	DIP26	CMOS PROGRAMMABLE INTRPT CONTROLLER iAPX 86
82LS16	DIP16	82LS16	256-BIT LOW-POWER SCHOTTKY BIPOLAR RAM
8344AH	DIP40-600	8031	HIGH PERFORMANCE 8-BIT MICROCONTROLLER W/SER COM CNTRLR
8394	DIP48-600	8094	MCS-96 48-PIN DIP
8395	DIP48-600	8094	MCS-96 48-PIN DIP
8395BH	DIP48-600	8094	MCS-96 48-PIN DIP
8396	PGA-68P	8096	MCS-96 68-PIN , PIN GRID ARRAY
8396BH	PGA-68P	8096	MCS-96 68-PIN , PIN GRID ARRAY
8397	PGA-68P	8096	MCS-96 68-PIN , PIN GRID ARRAY
8397BH	PGA-68P	8096	MCS-96 68-PIN , PIN GRID ARRAY
83C452P	PGA-68P	83C452	CMOS PROGRAMMABLE I/O PROCESSOR
8741AH	DIP40-600	8041	8-BIT, SINGLE CHIP NMOS MICROCOMPUTER W/ UNIVERSAL PPI
8742AH	DIP40-600	8042	UNIV PERIPHERAL INTERFACE 8-BIT MICROCOMPUTER
8744H	DIP40-600	8031	HIGH PERFORMANCE 8-BIT MICROCONTROLLER W/SER COM CNTRLR
8748H	DIP40-600	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
8749H	DIP40-600	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
8751BH	DIP40-600	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER 4K X 8 ROM

**Table 6-1. Intel Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
8751H	DIP40-600	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER 4K X 8 ROM
8752BH	DIP40-600	8031	8-BIT MICROCOMPUTER W/8K BYTES OF EPROM PROG MEMORY
8755A	DIP40-600	8755	16,384-BIT EPROM WITH I/O
8795BH	DIP48-600	DIP44	MCS-96
8796BH	PGA-68P	DIP64	MCS-96
87C452P	PGA-68P	83C452	CHMOS PROGRAMMABLE I/O PROCESSOR
87C51	DIP40-600	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER 4K X 8 ROM
87C51-PLCC	PLCC44	8031	8-BIT CMOS MICROCOMPUTER 4K X 8 ROM PLCC VERSION
87C51AH	DIP40-600	8031	CMOS CONTROL-ORIENTED MICROCOMPUTER 4K X 8 ROM
87C51FA	DIP40-600	8031	SINGLE-CHIP 8-BIT MICROCONTROLLER W/8K BYTES EPROM
87C64	DIP28-600	RE8K8	8K X 8 BIT EPROM- LATCH
88N8031	LCC44SQ	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER
88N8035AHL	LCC44SQ	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
88N8035H	LCC44SQ	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
88N8039AHL	LCC44SQ	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
88N8039H	LCC44SQ	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
88N8040AHL	LCC44SQ	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
88N8044AH	LCC44SQ	8031	HIGH PERFORMANCE 8-BIT MICROCONTROLLER W/SER COM CNTRLR
88N8048AH	LCC44SQ	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
88N8048AHL	LCC44SQ	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER



**Table 6-1. Intel Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N8049AH	LCC44SQ	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
N8050AH	LCC44SQ	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
N8051	LCC44SQ	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER 4K X 8 ROM
N8051AH	LCC44SQ	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER 4K X 8 ROM
N8052AH	LCC44SQ	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER 4K X 8 ROM
N8096	LCC68SQ	8096	MCS-96 68-PIN PLCC
N8096BH	LCC68SQ	8096	MCS-96 68-PIN PLCC
N8097BH	LCC68SQ:PGA-68PB	DIP64	MCS-96 PLCC
N80C196	LCC68SQ:PGA-68PB	DIP64	MCS-96 PLCC
N80C31BH	LCC44SQ	8031	CMOS 8-BIT CONTROL-ORIENTED MICROCOMPUTER
N80C51BH	LCC44SQ	8031	CMOS 8-BIT CONTROL-ORIENTED MICROCOMPUTER 4K X 8 ROM
N8344AH	LCC44SQ	8031	HIGH PERFORMANCE 8-BIT MICROCONTROLLER W/SER COM CNTRLR
N8744H	LCC44SQ	8031	HIGH PERFORMANCE 8-BIT MICROCONTROLLER W/SER COM CNTRLR
N8748H	LCC44SQ	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
N8749H	LCC44SQ	8035AHL	HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
N8751H	LCC44SQ	8031	8-BIT CONTROL-ORIENTED MICROCOMPUTER 4K X 8 ROM
N87C51	LCC44SQ	8031	CMOS 8-BIT CONTROL-ORIENTED MICROCOMPUTER 4K X 8 ROM



# Chapter 7

## Motor-ic Library

The following table lists all the part types in the motor-ic sample library. This listing is based on the part types and lists any associated PCB Decals and Logic Decals. The associated PCB and/or Logic decals are not necessarily sourced from the same library as the part type.

**Table 7-1. Motor-ic Library Part Types**

Part Type	PCB Decals	Logic Decals	Description
372	DIP14	1372	COLOR TV VIDEO MODULATOR
68154	DIP40-600	68154	INTERRUPT GENERATOR
68154-PLCC	PLCC44	68154	INTERRUPT GENERATOR
68154A	LCC44SQ	68154	INTERRUPT GENERATOR PLCC VERSION
AM26LS30-422	DIP16:SO16NB	DRV-EIA422E	DUAL DIFFERENTIAL LINE DRIVER (EIA-422)
AM26LS30-423	DIP16:SO16NB	DRV-EIA423	QUAD SINGLE-ENDED LINE DRIVER (EIA-422)
AM26LS31	DIP16:SO16NB	DRV-EIA422A:DRV-EIA422	QUAD EIA-422 LINE DRIVER WITH 3-STATE OUTPUTS
AM26LS32	DIP16:SO16NB	RCVR-EIA422A:RCVR-EIA422	QUAD EIA-422/3 LINE RECEIVER WITH 3-STATE OUTPUTS
CA3059	DIP14	3059	ZERO VOLTAGE SWITCH
CA3079	DIP14	3059	ZERO VOLTAGE SWITCH
DAC-08	DIP16:SO16NB	DAC-08	HIGH SPEED 8-BIT D-TO-A CONVERTER
LF347	DIP14	OPAMP2:OPAMP1	JFET INPUT OPERATIONAL AMPLIFIER
LF351D	SO8NB	OPAMP2-TRIM	JFET INPUT OPERATIONAL AMPLIFIER
LF351N	DIP8	OPAMP2-TRIM	JFET INPUT OPERATIONAL AMPLIFIER
LF353D	SO8NB	OPAMP2	JFET INPUT OPERATIONAL AMPLIFIER
LF353N	DIP8	OPAMP2	JFET INPUT OPERATIONAL AMPLIFIER
LF355BH	TO-99	OPAMP2-TRIM	MONOLITHIC JFET OPERATIONAL AMPLIFIER
LF355BJ	DIP8	OPAMP2-TRIM	MONOLITHIC JFET OPERATIONAL AMPLIFIER
LF355H	TO-99	OPAMP2-TRIM	MONOLITHIC JFET OPERATIONAL AMPLIFIER
LF355J	DIP8	OPAMP2-TRIM	MONOLITHIC JFET OPERATIONAL AMPLIFIER

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
F356BH	TO-99	OPAMP2-TRIM	MONOLITHIC JFET OPERATIONAL AMPLIFIER
F356BJ	DIP8	OPAMP2-TRIM	MONOLITHIC JFET OPERATIONAL AMPLIFIER
F356H	TO-99	OPAMP2-TRIM	MONOLITHIC JFET OPERATIONAL AMPLIFIER
F356J	DIP8	OPAMP2-TRIM	MONOLITHIC JFET OPERATIONAL AMPLIFIER
F357BH	TO-99	OPAMP2-TRIM	MONOLITHIC JFET OPERATIONAL AMPLIFIER
F357BJ	DIP8	OPAMP2-TRIM	MONOLITHIC JFET OPERATIONAL AMPLIFIER
F357H	TO-99	OPAMP2-TRIM	MONOLITHIC JFET OPERATIONAL AMPLIFIER
F357J	DIP8	OPAMP2-TRIM	MONOLITHIC JFET OPERATIONAL AMPLIFIER
F411C	DIP8:SO8NB	OPAMP2-TRIM	JFET OPERATIONAL AMPLIFIER
F412C	DIP8:SO8NB	OPAMP2	DUAL JFET OPERATIONAL AMPLIFIER
F441C	DIP8:SO8NB	OPAMP2-TRIM	JFET OPERATIONAL AMPLIFIER
F442C	DIP8:SO8NB	OPAMP2	JFET OPERATIONAL AMPLIFIER
F444C	DIP14:SO14NB	OPAMP2:OPAMP1	JFET OPERATIONAL AMPLIFIER
M101A	DIP8:TO-99:SO8NB	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
M108AH	TO-99	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M108AJ	DIP14	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M108AJ-8	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M108H	TO-99	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M108J	DIP14	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M108J-8	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M109H	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5VOLTS
M109K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5VOLTS
M111H	TO-99	OPAMP1-TRIM	HIGH PERFORMANCE VOLTAGE COMPARATOR
M111J-8	DIP8	OPAMP1-TRIM	HIGH PERFORMANCE VOLTAGE COMPARATOR
M117H	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
M117K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
LM117LH	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM11C	DIP8:TO-99	OPAMP2-TRIM-C	PRECISION OPERATIONAL AMPLIFIER
LM11CJ	DIP14	OPAMP2-TRIM-C	PRECISION OPERATIONAL AMPLIFIER
LM11CL	DIP8:TO-99	OPAMP2-TRIM-C	PRECISION OPERATIONAL AMPLIFIER
LM11CLJ	DIP14	OPAMP2-TRIM-C	PRECISION OPERATIONAL AMPLIFIER
LM123AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; +5VOLT 3.0 AMPS
LM123K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; +5VOLT 3.0 AMPS
LM124J	DIP14	OPAMP2:OPAMP1	QUAD DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
LM137H	TO-39	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
LM137K	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
LM139AJ	DIP14	OPAMP2	QUAD COMPARATOR
LM139J	DIP14	OPAMP2	QUAD COMPARATOR
LM140AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED VOLTAGE 5-15 VOLTS
LM140K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED VOLTAGE 5-15 VOLTS
LM148J	DIP14	OPAMP2:OPAMP1	DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
LM150K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM158	TO-99:DIP8	OPAMP2	DUAL DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
LM193AH	TO-99	OPAMP2	DUAL COMPARATOR
LM193H	TO-99	OPAMP2	DUAL COMPARATOR
LM201A	DIP8:TO- 99:SO8NB	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM208	DIP8:TO- 99:SO8NB	OPAMP2-TRIM	OPERATIONAL AMPLIFIER

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
LM208A	DIP8:TO-99:SO8NB	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM208AJ	DIP14	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM208J	DIP14	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM209H	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5VOLTS
LM209K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5VOLTS
LM211	TO-99:SO8NB:DIP8	OPAMP1-TRIM	HIGH PERFORMANCE VOLTAGE COMPARATOR
LM217H	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM217K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM217LH	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM223AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; +5VOLT @ 3.0 AMPS
LM223K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; +5VOLT @ 3.0 AMPS
LM224	DIP14	OPAMP2:OPAMP1	QUAD DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
LM237H	TO-39	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
LM237K	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
LM239	DIP14	OPAMP2	QUAD COMPARATOR
LM239A	DIP14	OPAMP2	QUAD COMPARATOR
LM248	DIP14	OPAMP2:OPAMP1	DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
LM250K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM258	DIP8:SO8NB:TO-99	OPAMP2	DUAL DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
LM285D-1.2	SO8NB	ZENER-8P	MICROPOWER VOLTAGE REFERENCE DIODE

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
LM285D-2.5	SO8NB	ZENER-8P	MICROPOWER VOLTAGE REFERENCE DIODE
LM285Z-1.2	TO-92	ZENER-3P	MICROPOWER VOLTAGE REFERENCE DIODE
LM285Z-2.5	TO-92	ZENER-3P	MICROPOWER VOLTAGE REFERENCE DIODE
LM2900N	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
LM2901	DIP14	OPAMP2	QUAD COMPARATOR
LM2902	DIP14	OPAMP2:OPAMP1	QUAD DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
LM2903	DIP8:SO8NB	OPAMP2	DUAL DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
LM2904	DIP8:SO8NB:TO-99	OPAMP2	DUAL DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
LM293	SO8NB:TO-99	OPAMP2	DUAL COMPARATOR
LM2931AD-5.0	SO8NB	VR-DIP8	LOW DROPOUT VOLTAGE REGULATOR; FIXED +5.0 VOLTS
LM2931AT-5.0	TO-220AB	VR-3TERM	LOW DROPOUT VOLTAGE REGULATOR; FIXED +5.0 VOLTS
LM2931AZ-5.0	TO-92	VR-3TERM	LOW DROPOUT VOLTAGE REGULATOR; FIXED +5.0 VOLTS
LM2931CD	SO8NB	VR-DIP8	LOW DROPOUT VOLTAGE REGULATOR;ADJUSTABLE
LM2931CT	TO5A	VR-5TERM	LOW DROPOUT VOLTAGE REGULATOR;ADJUSTABLE
LM2931D-5.0	SO8NB	VR-DIP8	LOW DROPOUT VOLTAGE REGULATOR; FIXED +5.0 VOLTS
LM2931T-5.0	TO-220AB	VR-3TERM	LOW DROPOUT VOLTAGE REGULATOR; FIXED +5.0 VOLTS
LM2931Z-5.0	TO-92	VR-3TERM	LOW DROPOUT VOLTAGE REGULATOR; FIXED +5.0 VOLTS
LM2935T	TO5A	VR-5TERM	LOW DROPOUT VOLTAGE REGULATOR;FIXED +5.0 VOLTS
LM293AH	TO-99	OPAMP2	DUAL COMPARATOR
LM293H	TO-99	OPAMP2	DUAL COMPARATOR
LM301A	DIP8:TO-99:SO8NB	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LM307N	DIP8	OPAMP2	OPERATIONAL AMPLIFIER
LM308	DIP8:TO-99:SO8NB	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM308A	DIP8:TO-99:SO8NB	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM308AJ	DIP14	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM308J	DIP14	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM309H	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5VOLTS
LM309K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5VOLTS
LM311	DIP8:SO8NB	OPAMP1-TRIM	HIGH PERFORMANCE VOLTAGE COMPARATOR
LM317BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317H	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317K	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317LBZ	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317LD	SO8NB	VR-DIP8	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317LH	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317LZ	TO-92:TO-92A:TO-92B	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317MBT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317MDT	DPAK4	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317MDT-1	TO-251AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317MT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE



**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
LM317T	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM323AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; +5VOLT G 3.0 AMPS
LM323AT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; +5VOLT G 3.0 AMPS
LM323K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; +5VOLT G 3.0 AMPS
LM323T	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; +5VOLT G 3.0 AMPS
LM324	DIP14:SO14NB	OPAMP2:OPAMP1	QUAD DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
LM324A	DIP14	OPAMP2:OPAMP1	QUAD DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
LM337BT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
LM337H	TO-39	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
LM337K	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
LM337MBT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
LM337MT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
LM337T	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
LM339	DIP14	OPAMP2	QUAD COMPARATOR
LM339A	DIP14	OPAMP2	QUAD COMPARATOR
LM340AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED VOLTAGE 5-15 VOLTS
LM340AT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED VOLTAGE 5-15 VOLTS
LM340K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED VOLTAGE 5-15 VOLTS
LM340T	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED VOLTAGE 5-24 VOLTS

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
LM348	DIP14:SO14NB	OPAMP2:OPAMP1	DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
LM350BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM350K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM350T	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM358	DIP8:SO8NB:TO-99	OPAMP2	DUAL DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
LM385BD-1.2	SO8NB	ZENER-8P	MICROPOWER VOLTAGE REFERENCE DIODE
LM385BD-2.5	SO8NB	ZENER-8P	MICROPOWER VOLTAGE REFERENCE DIODE
LM385BZ-1.2	TO-92	ZENER-3P	MICROPOWER VOLTAGE REFERENCE DIODE
LM385BZ-2.5	TO-92	ZENER-3P	MICROPOWER VOLTAGE REFERENCE DIODE
LM385D-1.2	SO8NB	ZENER-8P	MICROPOWER VOLTAGE REFERENCE DIODE
LM385D-2.5	SO8NB	ZENER-8P	MICROPOWER VOLTAGE REFERENCE DIODE
LM385Z-1.2	TO-92	ZENER-3P	MICROPOWER VOLTAGE REFERENCE DIODE
LM385Z-2.5	TO-92	ZENER-3P	MICROPOWER VOLTAGE REFERENCE DIODE
LM3900	DIP14:SO14NB	OPAMP2	QUAD OPERATIONAL AMPLIFIER
LM393	DIP8:SO8NB:TO-99	OPAMP2	DUAL COMPARATOR
LM393A	DIP8:TO-99	OPAMP2	DUAL COMPARATOR
LM833	DIP8:SO8NB	OPAMP2	DUAL OPERATIONAL AMPLIFIER
MC100E016	PLCC28SQ	10E016	ECL 8-BIT BINARY UP COUNTER
MC100E101	PLCC28SQ	NOR4X2	QUAD 4-INPUT OR/NOR GATE
MC100E104	PLCC28SQ	AND2X2:QUINT-OR	QUINT 2-INPUT AND/NAND GATE
MC100E107	PLCC28SQ	XORX2:QUINT-OR	QUINT 2-INPUT AND/NAND GATE
MC100E111	PLCC28SQ	10E016	1:9 DIFFERENTIAL CLOCK DRIVER
MC100E112	PLCC28SQ	NOR2X4:NOR1X4	QUAD OR/NOR GATE, COMMON PIN 4
MC100E116	PLCC28SQ	LRCVRVBB:LINERCVR	QUINT DIFFERENTIAL LINE RECEIVER
MC100E122	PLCC28SQ	BUFFER	9-BIT BUFFER
MC100E131	PLCC28SQ	10E131	4-BIT D FLIP-FLOP

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC100E141	PLCC28SQ	10E141	8-BIT SHIFT REGISTER
MC100E142	PLCC28SQ	10E142	9-BIT SHIFT REGISTER
MC100E143	PLCC28SQ	10E143	9-BIT HOLD REGISTER
MC100E150	PLCC28SQ	10E150	6-BIT D LATCH
MC100E151	PLCC28SQ	10E150	6-BIT D REGISTER
MC100E154	PLCC28SQ	10E154	5-BIT 2:1 MUX LATCH
MC100E155	PLCC28SQ	10E155	6-BIT 2:1 MUX LATCH
MC100E156	PLCC28SQ	10E156	3-BIT 4:1 MUX LATCH
MC100E157	PLCC28SQ	MUX	QUAD 2:1 MULTIPLEXER
MC100E158	PLCC28SQ	10E158	5-BIT 2:1 MULTIPLEXER
MC100E160	PLCC28SQ	10E160	12-BIT PARITY GENERATOR/CHECKER
MC100E163	PLCC28SQ	10E163	2-BIT 8:1 MULTIPLEXER
MC100E164	PLCC28SQ	10E164	16:1 MULTIPLEXER
MC100E166	PLCC28SQ	10E166	9-BIT MAGNITUDE COMAPRATOR
MC100E167	PLCC28SQ	10E167	6-BIT 2:1 MUX-REGISTER
MC100E171	PLCC28SQ	10E171	3-BIT 4:1 MULTIPLXER
MC100E175	PLCC28SQ	10E175	9-BIT LATCH WITH PARITY
MC100E193	PLCC28SQ	10E193	ERROR DETECTION/CORRECTION CIRCUIT
MC100E195	PLCC28SQ	DELAY	PROGRAMMABLE CHIP
MC100E196	PLCC28SQ	DELAY	PROGRAMMABLE DELAY CHIP
MC100E212	PLCC28SQ	10E212	3-BIT ADDRESSABLE REGISTERED ADDRESS DRIVER
MC100E241	PLCC28SQ	10E241	8-BIT SCANABLE REGISTER
MC100E256	PLCC28SQ	10E256	3-BIT 4:1 MUX LATCH
MC100E336	PLCC28SQ	10E336	3-BIT REGISTERED BUS TRANSCEIVER
MC100E404	PLCC28SQ	AND-DIFF	QUAD DIFFERENTIAL AND/NAND
MC100E431	PLCC28SQ	DIFF-LATCHVBB:DIFF-LATCH	3-BIT DIFFERENTIAL FLIP-FLOP
MC100E451	PLCC28SQ	10E451	6-BIT REGISTER; DIFF. DATA&CLOCK
MC100E452	PLCC28SQ	10E452	5-BIT REGISTER; DIFF. DATA&CLOCK

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC100E457	PLCC28SQ	10E457	TRIPLE DIFFERENTIAL 2:1 MULTIPLEXER
MC10100	DIP16	NOR3:NOR2	ECL QUAD 2-INPUT NOR GATE, COMMON PIN 9
MC10100FN	PLCC20SQ	NOR3:NOR2	ECL QUAD 2-INPUT NOR GATE, COMMON PIN 12
MC10101	DIP16	NOR2X2:NOR1X2	ECL QUAD OR/NOR GATE, COMMON PIN 12
MC10101FN	PLCC20SQ	NOR2X2:NOR1X2	ECL QUAD OR/NOR GATE, COMMON PIN 12
MC10102	DIP16	NOR2X2:NOR2	ECL QUAD NOR GATE
MC10102FN	PLCC20SQ	NOR2X2:NOR2	ECL QUAD NOR GATE
MC10103	DIP16	NOR2X2:OR2	ECL QUAD OR GATE
MC10103FN	PLCC20SQ	NOR2X2:OR2	ECL QUAD OR GATE
MC10104	DIP16	AND2X2:AND2	ECL QUAD AND GATE
MC10104FN	PLCC20SQ	AND2X2:AND2	ECL QUAD AND GATE
MC10105	DIP16	NOR3X2:NOR2X2	ECL TRIPLE 2-3-2 OR/NOR GATE
MC10105FN	PLCC20SQ	NOR3X2:NOR2X2	ECL TRIPLE 2-3-2 OR/NOR GATE
MC10106	DIP16	NOR4:NOR3	ECL TRIPLE 4-3-3 NOR GATE
MC10106FN	PLCC20SQ	NOR4:NOR3	ECL TRIPLE 4-3-3 NOR GATE
MC10107	DIP16	XORX2	ECL TRIPLE XOR/XNOR GATE
MC10107FN	PLCC20SQ	XORX2	ECL TRIPLE XOR/XNOR GATE
MC10109	DIP16	NOR4X2:NOR5X2	ECL DUAL 4-5 OR/NOR GATE
MC10109FN	PLCC20SQ	NOR4X2:NOR5X2	ECL DUAL 4-5 OR/NOR GATE
MC10110	DIP16	OR3X3	ECL DUAL 3X3 OR GATE
MC10110FN	PLCC20SQ	OR3X3	ECL DUAL 3X3 OR GATE
MC10111	DIP16	NOR3X3	ECL DUAL 3X3 NOR GATE
MC10111FN	PLCC20SQ	NOR3X3	ECL DUAL 3X3 NOR GATE
MC10113	DIP16	XORENA:XOR	ECL QUAD XOR GATE, COMMON PIN 9
MC10113FN	PLCC20SQ	XORENA:XOR	ECL QUAD XOR GATE, COMMON PIN 9
MC10114	DIP16	LRCV RVBB:LINERCVR	ECL TRIPLE LINE RECEIVER
MC10114FN	PLCC20SQ	LRCV RVBB:LINERCVR	ECL TRIPLE LINE RECEIVER
MC10115	DIP16	RCVR-VBB:RCVR	ECL QUAD LINE RECEIVER, VBB=9

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC10115FN	PLCC20SQ	RCVR-VBB:RCVR	ECL QUAD LINE RECEIVER, VBB=9
MC10116	DIP16	LRCVRVBB:LINERCVR	ECL TRIPLE LINE RECEIVER
MC10116FN	PLCC20SQ	LRCVRVBB:LINERCVR	ECL TRIPLE LINE RECEIVER
MC10117	DIP16	10117	ECL DUAL 2-WIDE 2-3 OR-AND/OR-NAND GATE
MC10117FN	PLCC20SQ	10117	ECL DUAL 2-WIDE 2-3 OR-AND/OR-NAND GATE
MC10118	DIP16	10118	ECL DUAL 2-WIDE 3 INPUT OR-AND GATE
MC10118FN	PLCC20SQ	10118	ECL DUAL 2-WIDE 3 INPUT OR-AND GATE
MC10119	DIP16	10119	ECL DUAL 4-WIDE 4-3-3-3 INPUT OR-AND GATE
MC10119FN	PLCC20SQ	10119	ECL DUAL 4-WIDE 4-3-3-3 INPUT OR-AND GATE
MC10121	DIP16	10121	ECL DUAL 4-WIDE OR-AND/OR-NAND GATE
MC10121FN	PLCC20SQ	10121	ECL DUAL 4-WIDE OR-AND/OR-NAND GATE
MC10123	DIP16	NOR4:NOR3	ECL TRIPLE 4-3-3 INPUT BUS DRIVER
MC10123FN	PLCC20SQ	NOR4:NOR3	ECL TRIPLE 4-3-3 INPUT BUS DRIVER
MC10124	DIP16	AND2X2:AND1X2	TTL TO MECL TRANSLATOR
MC10124FN	PLCC20SQ	AND2X2:AND1X2	TTL TO MECL TRANSLATOR
MC10125	DIP16	RCVR-VBB:RCVR	MECL TO TTL TRANSLATOR
MC10125FN	PLCC20SQ	RCVR-VBB:RCVR	MECL TO TTL TRANSLATOR
MC10128	DIP16	10128	ECL BUS DRIVER
MC10129	DIP16	10129	ECL QUAD BUS RECEIVER
MC10130	DIP16	DLATCH-C:DLATCH	DUAL D-TYPE LATCH
MC10130FN	PLCC20SQ	DLATCH-C:DLATCH	DUAL D-TYPE LATCH
MC10131	DIP16	DLATCH-C:DLATCH	DUAL D-TYPE LATCH
MC10131FN	PLCC20SQ	DLATCH-C:DLATCH	DUAL D-TYPE MASTER-SLAVE FLIP FLOP
MC10132	DIP16	10132	DUAL MULTIPLEXER WITH LATCH AND COMMON RESET
MC10133	DIP16	10133	QUAD LATCH
MC10133FN	PLCC20SQ	10133	QUAD LATCH

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC10134	DIP16	10134	DUAL MULTIPLEXER WITH LATCH
MC10134FN	PLCC20SQ	10134	DUAL MULTIPLEXER WITH LATCH
MC10135	DIP16	JK-COM:JK	DUAL JK FLIP FLOP
MC10135FN	PLCC20SQ	JK-COM:JK	DUAL JK FLIP FLOP
MC10136	DIP16	10136	UNIVERSAL HEXIDECIMAL COUNTER
MC10136FN	PLCC20SQ	10136	UNIVERSAL HEXIDECIMAL COUNTER
MC10137	DIP16	10137	UNIVERSAL DECADE COUNTER
MC10138	DIP16	10138	BI-QUINARY COUNTER
MC10138FN	PLCC20SQ	10138	BI-QUINARY COUNTER
MC10141	DIP16	10141	4-BIT UNIVERSAL SHIFT REGISTER
MC10141FN	PLCC20SQ	10141	4-BIT UNIVERSAL SHIFT REGISTER
MC10153	DIP16	10153	QUAD LATCH
MC10153FN	PLCC20SQ	10153	QUAD LATCH
MC10154	DIP16	10154	BINARY COUNTER
MC10158	DIP16	10158	QUAD 2-INPUT MULTIPLEXER
MC10158FN	PLCC20SQ	10158	QUAD 2-INPUT MULTIPLEXER
MC10159	DIP16	10159	QUAD 2-INPUT MULTIPLEXER, INVERTED OUTPUT WITH ENABLE
MC10159FN	PLCC20SQ	10159	QUAD 2-INPUT MULTIPLEXER, INVERTED OUTPUT WITH ENABLE
MC10160	DIP16	10160	12-BIT PARITY GENERATOR - CHECKER
MC10160FN	PLCC20SQ	10160	12-BIT PARITY GENERATOR - CHECKER
MC10161	DIP16	10161	BINARY TO 1-OF-8 DECODER
MC10161FN	PLCC20SQ	10161	BINARY TO 1-OF-8 DECODER
MC10162	DIP16	10162	BINARY TO 1-OF-8 DECODER, INVERTED OUTPUTS
MC10162FN	PLCC20SQ	10162	BINARY TO 1-OF-8 DECODER, WITH INVERTED OUTPUTS
MC10163	DIP16	10163	ERROR DETECTION - CORRECTION CIRCUIT
MC10164	DIP16	10164	8-LINE MULTIPLXER
MC10164FN	PLCC20SQ	10164	8-LINE MULTIPLXER

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC10165	DIP16	10165	8-INPUT PRIORITY ENCODER
MC10165FN	PLCC20SQ	10165	8-INPUT PRIORITY ENCODER
MC10166	DIP16	10166	5-BIT MAGNITUDE COMPARATOR
MC10166FN	PLCC20SQ	10166	5-BIT MAGNITUDE COMPARATOR
MC10168	DIP16	10168	QUAD LATCH
MC10168FN	PLCC20SQ	10168	QUAD LATCH
MC10170	DIP16	10170	9+2 - BIT PARITY GENERATOR CHECKER
MC10170FN	PLCC20SQ	10170	9+2 - BIT PARITY GENERATOR CHECKER
MC10171	DIP16	10171	BINARY 1-4 DECODER (LOW)
MC10171FN	PLCC20SQ	10171	BINARY 1-4 DECODER (LOW)
MC10172	DIP16	10172	BINARY 1-4 DECODER (HIGH)
MC10172FN	PLCC20SQ	10172	BINARY 1-4 DECODER (HIGH)
MC10173	DIP16	10173	QUAD 2-INPUT MULTIPLEXER/LATCH
MC10173FN	PLCC20SQ	10173	QUAD 2-INPUT MULTIPLEXER/LATCH
MC10174	DIP16	10174	DUAL 4:1 MULTIPLEXER
MC10174FN	PLCC20SQ	10174	DUAL 4 TO 1 MULTIPLEXER
MC10175	DIP16	10175	QUINT LATCH
MC10175FN	PLCC20SQ	10175	QUINT LATCH
MC10176	DIP16	10176	HEX D MASTTER-SLAVE FLIP-FLOP
MC10176FN	PLCC20SQ	10176	HEX D MASTTER-SLAVE FLIP-FLOP
MC10177	DIP16	10177	ECL TRIPLE MECL TO NMOS TRANSLATOR
MC10178	DIP16	10178	BINARY COUNTER
MC10178FN	PLCC20SQ	10178	BINARY COUNTER
MC10179	DIP16	10179	LOOK-AHEAD CARRY BLOCK
MC10180	DIP16	10180	DUAL 2-BIT ADDER/SUBTRACTOR
MC10181	DIP24-600	10181	4-BIT ARITHMETIC LOGIC UNIT/FUNCTION GENERATOR
MC10182	DIP16	10182	DUAL 2-BIT ARITHMETIC LOGIC UNIT
MC10188	DIP16	AND2NEG:COMANDNEG	HEX BUFFER WITH ENABLE
MC10188FN	PLCC20SQ	AND2NEG:COMANDNEG	HEX BUFFER WITH ENABLE



**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC10189	DIP16	NOR2:COMNOR	HEX INVERTER WITH ENABLE
MC10189FN	PLCC20SQ	NOR2:COMNOR	HEX INVERTER WITH ENABLE
MC10190	DIP16	RCVR-VBB:RCVR	QUAD MST TO MECL 10K TRANSLATOR
MC10190FN	PLCC20SQ	RCVR-VBB:RCVR	QUAD MST TO MECL 10K TRANSLATOR
MC10191	DIP16	AND2NEG:COMAND	HEX MECL 10K TO MST TRANSLATOR
MC10192	DIP16	10192	QUAD BUS DRIVER
MC10192FN	PLCC20SQ	10192	QUAD BUS DRIVER
MC10193	DIP16	10193	ERROR DETECTION - CORRECTION CIRCUIT
MC10195	DIP16	XNOR:COMXNOR	HEX INVERTER/BUFFER WITH COMMON PIN
MC10195FN	PLCC20SQ	XNOR:COMXNOR	HEX INVERTER/BUFFER WITH COMMON PIN
MC10197	DIP16	AND2:COMAND	HEX AND GATE
MC10197FN	PLCC20SQ	AND2:COMAND	HEX AND GATE
MC10198	DIP16	10198	MONOSTABLE MULTIVIBRATOR
MC10198FN	PLCC20SQ	10198	MONOSTABLE MULTIVIBRATOR
MC10210	DIP16	OR3X3	ECL DUAL 3X3 OR GATE
MC10210FN	PLCC20SQ	OR3X3	ECL DUAL 3X3 OR GATE
MC10211	DIP16	NOR3X3	ECL DUAL 3X3 NOR GATE
MC10211FN	PLCC20SQ	NOR3X3	ECL DUAL 3X3 NOR GATE
MC10212	DIP16	NOR2/OR1	ECL DUAL 3X2 NOR GATE/1 OR GATE
MC10212FN	PLCC20SQ	NOR2/OR1	ECL DUAL 3X2 NOR/X1 OR GATE
MC10216	DIP16	LRCVRVBB:LINERCVR	ECL HI-SPEED TRIPLE LINE RECEIVER
MC10216FN	PLCC20SQ	LRCVRVBB:LINERCVR	ECL HI-SPEED TRIPLE LINE RECEIVER
MC10231	DIP16	DLATCH-C:DLATCH	HI-SPEED DUAL D-TYPE LATCH
MC10231FN	PLCC20SQ	DLATCH-C:DLATCH	HI-SPEED DUAL D-TYPE MASTER-SLAVE FL FLOP
MC10318P	DIP16	DAC-08	HIGH SPEED 8-BIT D-TO-A CONVERTER
MC10319	DIP24- 600:SO24WB	10319	HIGH SPEED 8-BIT A-TO-D FLASH CONVERT
MC10321	DIP20:SO20WB	10321	HIGH SPEED 7-BIT A-TO-D FLASH CONVERT
MC10804	DIP16	10804	BIDIRECTIONAL TRANSCEIVER WITH LATC



Table 7-1. Motor-ic Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
MC10805	DIP20	10805	BIDIRECTIONAL TRANSCEIVER WITH LATCH
MC10E016	PLCC28SQ	10E016	ECL 8-BIT BINARY UP COUNTER
MC10E101	PLCC28SQ	NOR4X2	QUAD 4-INPUT OR/NOR GATE
MC10E104	PLCC28SQ	AND2X2:QUINT-OR	QUINT 2-INPUT AND/NAND GATE
MC10E107	PLCC28SQ	XORX2:QUINT-OR	QUINT 2-INPUT AND/NAND GATE
MC10E111	PLCC28SQ	10E016	1:9 DIFFERENTIAL CLOCK DRIVER
MC10E112	PLCC28SQ	NOR2X4:NOR1X4	QUAD OR/NOR GATE, COMMON PIN 4
MC10E116	PLCC28SQ	LRCVRVBB:LINERCVR	QUINT DIFFERENTIAL LINE RECEIVER
MC10E122	PLCC28SQ	BUFFER	9-BIT BUFFER
MC10E131	PLCC28SQ	10E131	4-BIT D FLIP-FLOP
MC10E141	PLCC28SQ	10E141	8-BIT SHIFT REGISTER
MC10E142	PLCC28SQ	10E142	9-BIT SHIFT REGISTER
MC10E143	PLCC28SQ	10E143	9-BIT HOLD REGISTER
MC10E150	PLCC28SQ	10E150	6-BIT D LATCH
MC10E151	PLCC28SQ	10E150	6-BIT D REGISTER
MC10E154	PLCC28SQ	10E154	5-BIT 2:1 MUX LATCH
MC10E155	PLCC28SQ	10E155	6-BIT 2:1 MUX LATCH
MC10E156	PLCC28SQ	10E156	3-BIT 4:1 MUX LATCH
MC10E157	PLCC28SQ	MUX	QUAD 2:1 MULTIPLEXER
MC10E158	PLCC28SQ	10E158	5-BIT 2:1 MULTIPLEXER
MC10E160	PLCC28SQ	10E160	12-BIT PARITY GENERATOR/CHECKER
MC10E163	PLCC28SQ	10E163	2-BIT 8:1 MULTIPLEXER
MC10E164	PLCC28SQ	10E164	16:1 MULTIPLEXER
MC10E1651	DIP16	10E1651	DUAL ANALOG COMPARATOR W. LATCH
MC10E1651FN	PLCC20SQ	10E1651	DUAL ANALOG COMPARATOR W. LATCH
MC10E1652	DIP16	10E1652:10E1651	DUAL ANALOG COMPARATOR W. LATCH
MC10E1652FN	PLCC20SQ	10E1652:10E1651	DUAL ANALOG COMPARATOR W. LATCH
MC10E166	PLCC28SQ	10E166	9-BIT MAGNITUDE COMPARATOR
MC10E167	PLCC28SQ	10E167	6-BIT 2:1 MUX-REGISTER
MC10E171	PLCC28SQ	10E171	3-BIT 4:1 MULTIPLEXER

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC10E175	PLCC28SQ	10E175	9-BIT LATCH WITH PARITY
MC10E193	PLCC28SQ	10E193	ERROR DETECTION/CORRECTION CIRCUIT
MC10E195	PLCC28SQ	DELAY	PROGRAMMABLE CHIP
MC10E196	PLCC28SQ	DELAY	PROGRAMMABLE DELAY CHIP
MC10E212	PLCC28SQ	10E212	3-BIT ADDRESSABLE REGISTERED ADDRESS DRIVER
MC10E241	PLCC28SQ	10E241	8-BIT SCANABLE REGISTER
MC10E256	PLCC28SQ	10E256	3-BIT 4:1 MUX LATCH
MC10E336	PLCC28SQ	10E336	3-BIT REGISTERED BUS TRANSCEIVER
MC10E404	PLCC28SQ	AND-DIFF	QUAD DIFFERENTIAL AND/NAND
MC10E416	PLCC28SQ	RCVR-DIFFVBB:RCVR-DIFF	QUINT DIFFERENTIAL LINE RECEIVER
MC10E431	PLCC28SQ	DIFF-LATCHVBB:DIFF-LATCH	3-BIT DIFFERENTIAL FLIP-FLOP
MC10E451	PLCC28SQ	10E451	6-BIT REGISTER; DIFF. DATA&CLOCK
MC10E452	PLCC28SQ	10E452	5-BIT REGISTER; DIFF. DATA&CLOCK
MC10E457	PLCC28SQ	10E457	TRIPLE DIFFERENTIAL 2:1 MULTIPLEXER
MC10H016	DIP16	10H016	ECL 4-BIT BINARY COUNTER
MC10H016FN	PLCC20SQ	10H016FN	ECL 4-BIT BINARY COUNTER
MC10H100	DIP16	NOR3:NOR2	ECL QUAD 2-INPUT NOR GATE, COMMON PIN 9
MC10H100FN	PLCC20SQ	NOR3:NOR2	ECL QUAD 2-INPUT NOR GATE, COMMON PIN 12
MC10H101	DIP16	NOR2X2:NOR1X2	ECL QUAD OR/NOR GATE, COMMON PIN 12
MC10H101FN	PLCC20SQ	NOR2X2:NOR1X2	ECL QUAD OR/NOR GATE, COMMON PIN 12
MC10H102	DIP16	NOR2X2:NOR2	ECL QUAD NOR GATE
MC10H102FN	PLCC20SQ	NOR2X2:NOR2	ECL QUAD NOR GATE
MC10H103	DIP16	NOR2X2:OR2	ECL QUAD OR GATE
MC10H103FN	PLCC20SQ	NOR2X2:OR2	ECL QUAD OR GATE
MC10H104	DIP16	AND2X2:AND2	ECL QUAD AND GATE
MC10H104FN	PLCC20SQ	AND2X2:AND2	ECL QUAD AND GATE
MC10H105	DIP16	NOR3X2:NOR2X2	ECL TRIPLE 2-3-2 OR/NOR GATE

Table 7-1. Motor-ic Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
MC10H105FN	PLCC20SQ	NOR3X2:NOR2X2	ECL TRIPLE 2-3-2 OR/NOR GATE
MC10H106	DIP16	NOR4:NOR3	ECL TRIPLE 4-3-3 NOR GATE
MC10H106FN	PLCC20SQ	NOR4:NOR3	ECL TRIPLE 4-3-3 NOR GATE
MC10H107	DIP16	XORX2	ECL TRIPLE XOR/XNOR GATE
MC10H107FN	PLCC20SQ	XORX2	ECL TRIPLE XOR/XNOR GATE
MC10H109	DIP16	NOR4X2:NOR5X2	ECL DUAL 4-5 OR/NOR GATE
MC10H109FN	PLCC20SQ	NOR4X2:NOR5X2	ECL DUAL 4-5 OR/NOR GATE
MC10H113	DIP16	XORENA:XOR	ECL QUAD XOR GATE, COMMOM PIN 9
MC10H113FN	PLCC20SQ	XORENA:XOR	ECL QUAD XOR GATE, COMMOM PIN 9
MC10H115	DIP16	RCVR-VBB:RCVR	ECL QUAD LINE RECEIVER, VBB=9
MC10H115FN	PLCC20SQ	RCVR-VBB:RCVR	ECL QUAD LINE RECEIVER, VBB=9
MC10H116	DIP16	LRCVRVBB:LINERCVR	ECL TRIPLE LINE RECEIVER
MC10H116FN	PLCC20SQ	LRCVRVBB:LINERCVR	ECL TRIPLE LINE RECEIVER
MC10H117	DIP16	10117	ECL DUAL 2-WIDE 2-3 OR-AND/OR-NAND GATE
MC10H117FN	PLCC20SQ	10117	ECL DUAL 2-WIDE 2-3 OR-AND/OR-NAND GATE
MC10H118	DIP16	10118	ECL DUAL 2-WIDE 3 INPUT OR-AND GATE
MC10H118FN	PLCC20SQ	10118	ECL DUAL 2-WIDE 3 INPUT OR-AND GATE
MC10H119	DIP16	10119	ECL DUAL 4-WIDE 4-3-3-3 INPUT OR-AND GATE
MC10H119FN	PLCC20SQ	10119	ECL DUAL 4-WIDE 4-3-3-3 INPUT OR-AND GATE
MC10H121	DIP16	10121	ECL DUAL 4-WIDE OR-AND/OR-NAND GATE
MC10H121FN	PLCC20SQ	10121	ECL DUAL 4-WIDE OR-AND/OR-NAND GATE
MC10H123	DIP16	NOR4:NOR3	ECL TRIPLE 4-3-3 INPUT BUS DRIVER
MC10H123FN	PLCC20SQ	NOR4:NOR3	ECL TRIPLE 4-3-3 INPUT BUS DRIVER
MC10H124	DIP16	AND2X2:AND1X2	TTL TO MECL TRANSLATOR
MC10H124FN	PLCC20SQ	AND2X2:AND1X2	TTL TO MECL TRANSLATOR
MC10H125	DIP16	RCVR-VBB:RCVR	MECL TO TTL TRANSLATOR
MC10H125FN	PLCC20SQ	RCVR-VBB:RCVR	MECL TO TTL TRANSLATOR

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC10H130	DIP16	DLATCH-C:DLATCH	DUAL D-TYPE LATCH
MC10H130FN	PLCC20SQ	DLATCH-C:DLATCH	DUAL D-TYPE LATCH
MC10H131	DIP16	DLATCH-C:DLATCH	DUAL D-TYPE LATCH
MC10H131FN	PLCC20SQ	DLATCH-C:DLATCH	DUAL D-TYPE MASTER-SLAVE FLIP FLOP
MC10H135	DIP16	JK-COM:JK	DUAL JK FLIP FLOP
MC10H135FN	PLCC20SQ	JK-COM:JK	DUAL JK FLIP FLOP
MC10H136	DIP16	10136	UNIVERSAL HEXIDECIMAL COUNTER
MC10H136FN	PLCC20SQ	10136	UNIVERSAL HEXIDECIMAL COUNTER
MC10H141	DIP16	10141	4-BIT UNIVERSAL SHIFT REGISTER
MC10H141FN	PLCC20SQ	10141	4-BIT UNIVERSAL SHIFT REGISTER
MC10H145	DIP16	10H145	4-BIT REGISTER FILE
MC10H145FN	PLCC20SQ	10H145	4-BIT REGISTER FILE
MC10H158	DIP16	10158	QUAD 2-INPUT MULTIPLEXER
MC10H158FN	PLCC20SQ	10158	QUAD 2-INPUT MULTIPLEXER
MC10H159	DIP16	10159	QUAD 2-INPUT MULTIPLEXER, INVERTED OUTPUT WITH ENABLE
MC10H159FN	PLCC20SQ	10159	QUAD 2-INPUT MULTIPLEXER, INVERTED OUTPUT WITH ENABLE
MC10H160	DIP16	10160	12-BIT PARITY GENERATOR - CHECKER
MC10H160FN	PLCC20SQ	10160	12-BIT PARITY GENERATOR - CHECKER
MC10H161	DIP16	10161	BINARY TO 1-OF-8 DECODER
MC10H161FN	PLCC20SQ	10161	BINARY TO 1-OF-8 DECODER
MC10H162	DIP16	10162	BINARY TO 1-OF-8 DECODER, INVERTED OUTPUTS
MC10H162FN	PLCC20SQ	10162	BINARY TO 1-OF-8 DECODER, WITH INVERTED OUTPUTS
MC10H164	DIP16	10164	8-LINE MULTIPLXER
MC10H164FN	PLCC20SQ	10164	8-LINE MULTIPLXER
MC10H165	DIP16	10165	8-INPUT PRIORITY ENCODER
MC10H165FN	PLCC20SQ	10165	8-INPUT PRIORITY ENCODER
MC10H166	DIP16	10166	5-BIT MAGNITUDE COMPARATOR

Table 7-1. Motor-ic Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
MC10H166FN	PLCC20SQ	10166	5-BIT MAGNITUDE COMPARATOR
MC10H171	DIP16	10171	BINARY 1-4 DECODER (LOW)
MC10H171FN	PLCC20SQ	10171	BINARY 1-4 DECODER (LOW)
MC10H172	DIP16	10172	BINARY 1-4 DECODER (HIGH)
MC10H172FN	PLCC20SQ	10172	BINARY 1-4 DECODER (HIGH)
MC10H173	DIP16	10173	QUAD 2-INPUT MULTIPLEXER/LATCH
MC10H173FN	PLCC20SQ	10173	QUAD 2-INPUT MULTIPLEXER/LATCH
MC10H174	DIP16	10174	DUAL 4:1 MULTIPLEXER
MC10H174FN	PLCC20SQ	10174	DUAL 4 TO 1 MULTIPLEXER
MC10H175	DIP16	10175	QUINT LATCH
MC10H175FN	PLCC20SQ	10175	QUINT LATCH
MC10H176	DIP16	10176	HEX D MASTTER-SLAVE FLIP-FLOP
MC10H176FN	PLCC20SQ	10176	HEX D MASTTER-SLAVE FLIP-FLOP
MC10H179	DIP16	10179	LOOK-AHEAD CARRY BLOCK
MC10H179FN	PLCC20SQ	10179	LOOK-AHEAD CARRY BLOCK
MC10H180	DIP16	10180	DUAL 2-BIT ADDER/SUBTRACTOR
MC10H180FN	PLCC20SQ	10180	DUAL 2-BIT ADDER/SUBTRACTOR
MC10H181	DIP24-600:DIP24-300	10181	4-BIT ARITHMETIC LOGIC UNIT/FUNCTION GENERATOR
MC10H181FN	PLCC28SQ	10181	4-BIT ARITHMETIC LOGIC UNIT/FUNCTION GENERATOR
MC10H188	DIP16	AND2NEG:COMANDNEG	HEX BUFFER WITH ENABLE
MC10H188FN	PLCC20SQ	AND2NEG:COMANDNEG	HEX BUFFER WITH ENABLE
MC10H189	DIP16	NOR2:COMNOR	HEX INVERTER WITH ENABLE
MC10H189FN	PLCC20SQ	NOR2:COMNOR	HEX INVERTER WITH ENABLE
MC10H209	DIP16	NOR4X2:NOR5X2	ECL DUAL 4-5 OR/NOR GATE
MC10H209FN	PLCC20SQ	NOR4X2:NOR5X2	ECL DUAL 4-5 OR/NOR GATE
MC10H210	DIP16	OR3X3	ECL DUAL 3X3 OR GATE
MC10H210FN	PLCC20SQ	OR3X3	ECL DUAL 3X3 OR GATE
MC10H211	DIP16	NOR3X3	ECL DUAL 3X3 NOR GATE

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC10H211FN	PLCC20SQ	NOR3X3	ECL DUAL 3X3 NOR GATE
MC10H301	DIP16	XOR4X:XOR	ECL DUAL 4-BIT PARITY CHECKER PLUS 2-BIT XOR GATE
MC10H301FN	PLCC20SQ	XOR4X:XOR	ECL DUAL 4-BIT PARITY CHECKER PLUS 2-BIT XOR GATE
MC10H302	DIP16	4X2XOR:XOR4X	ECL DUAL 6X4-BIT PARITY CHECKER
MC10H302FN	PLCC20SQ	4X2XOR:XOR4X	ECL DUAL 6X4-BIT PARITY CHECKER
MC10H303	DIP16	XOR5X	DUAL 5-BIT PARITY CHECKER
MC10H303FN	PLCC20SQ	XOR5X	DUAL 5-BIT PARITY CHECKER
MC10H304	DIP16	10H304	8-BIT/DUAL 4-BIT PARITY CHECKER
MC10H304FN	PLCC20SQ	10H304	8-BIT/DUAL 4-BIT PARITY CHECKER
MC10H330	DIP24-300	10H330	QUAD BUS DRIVER/RECEIVER WITH 2 TO 1 OUTPUT MUX
MC10H330FN	PLCC28SQ	10H330	QUAD BUS DRIVER/RECEIVER WITH 2 TO 1 OUTPUT MUX
MC10H332	DIP20	10H332	DUAL BUS DRIVER/RECEIVER WITH 4 TO 1 OUTPUT MUX
MC10H332FN	PLCC20SQ	10H332	DUAL BUS DRIVER/RECEIVER WITH 4 TO 1 OUTPUT MUX
MC10H334	DIP20	10H334	QUAD BUS DRIVER/RECEIVER WITH TX/RCV LATCHES
MC10H334FN	PLCC20SQ	10H334	QUAD BUS DRIVER/RECEIVER WITH TX/RCV LATCHES
MC10H350	DIP16	RCVR-VBB:RCVR	ECL TO TTL TRANSLATOR
MC10H350FN	PLCC20SQ	RCVR-VBB:RCVR	ECL TO TTL TRANSLATOR
MC10H351	DIP20	AND2X2:AND1X2	QUAD TTL/NMOS TO MECL TRANSLATOR
MC10H351FN	PLCC20SQ	AND2X2:AND1X2	QUAD TTL/NMOS TO MECL TRANSLATOR
MC10H352	DIP20	AND2X2:AND1X2	QUAD CMOS TO MECL TRANSLATOR
MC10H352FN	PLCC20SQ	AND2X2:AND1X2	QUAD CMOS TO MECL TRANSLATOR
MC10H423	DIP16	XOR4X:XOR3X	TRIPLE 3-INPUT BUS DRIVER WITH ENABLE
MC10H423FN	PLCC20SQ	XOR4X:XOR3X	TRIPLE 3-INPUT BUS DRIVER WITH ENABLE
MC10H424	DIP16	AND2X2:AND1X2	TTL TO MECL TRANSLATOR WITH ECL COMMON STROBE

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC10H424FN	PLCC20SQ	AND2X2:AND1X2	TTL TO MECL TRANSLATOR WITH COMMON ECL STROBE
MC12002	DIP14	12002	ANALOG MIXER
MC12009	DIP16	PLL	TWO MODULUS PRESCALER
MC12011	DIP16	PLL	TWO MODULUS PRESCALER
MC12013	DIP16	PLL	TWO MODULUS PRESCALER
MC12014	DIP16	12014	COUNTER CONTROL LOGIC
MC12015	DIP8:SO8NB	PRE-VR	LOW POWER TWO-MODULUS PRESCALER
MC12016	DIP8:SO8NB	PRE-VR	LOW POWER TWO-MODULUS PRESCALER
MC12017	DIP8:SO8NB	PRE-VR	LOW POWER TWO-MODULUS PRESCALER
MC12018	DIP8:SO8NB	PRE-VR	128/129 LOW POWER TWO-MODULUS PRESCALER
MC12022A	DIP8:SO8NB	12022	64/65, 128/129 LOW POWER TWO-MODULUS PRESCALER
MC12022B	DIP8:SO8NB	12022	64/65, 128/129 LOW POWER TWO-MODULUS PRESCALER
MC12025	DIP8	12025	64/65 LOW POWER TWO-MODULUS PRESCALER
MC12040	DIP16	12040	PHASE-FREQUENCY DETECTOR
MC12060	DIP16	12060	CRYSTAL OSCILLATOR
MC12061	DIP16	12060	CRYSTAL OSCILLATOR
MC12071	DIP14	12071	HIGH SPEED PRESCALER
MC12073	DIP8:SO8NB	12073	LOW POWER PRESCALER /64
MC12074	DIP8:SO8NB	12073	LOW POWER PRESCALER /256
MC12090	DIP16	12090	UHF PRESCALER
MC13055	DIP16:SO16NB	16PIN	WIDEBAND FSK RECEIVER
MC14000UB	DIP14:SO14NB	NOR3:INV	DUAL 3-INPUT NOR GATE WITH INVERTER
MC14001B	DIP14:SO14NB	NOR2	QUAD 2-INPUT NOR GATE
MC14001UB	DIP14:SO14NB	NOR2	QUAD 2-INPUT NOR GATE
MC14002B	DIP14:SO14NB	NOR4	DUAL 4-INPUT NOR GATE
MC14002UB	DIP14:SO14NB	NOR4	DUAL 4-INPUT NOR GATE



**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC14006B	DIP14:SO14NB	14006	18-BIT STATIC SHIFT REGISTER
MC14007UB	DIP14:SO14NB	COMP-PAIR:COMP-PAIR2:CMOS-INV	DUAL COMPLIMENTARY PAIR PLUS INVERTER
MC14008B	DIP16:SO16NB	14008	4-BIT FULL ADDER
MC14011B	DIP14:SO14NB	NAND2	QUAD 2-INPUT NAND GATE
MC14011UB	DIP14:SO14NB	NAND2	QUAD 2-INPUT NAND GATE
MC14012B	DIP14:SO14NB	NAND4	DUAL 4-INPUT NAND GATE
MC14012UB	DIP14:SO14NB	NAND4	DUAL 4-INPUT NAND GATE
MC14013B	DIP14:SO14NB	LATCH	DUAL TYPE D FLIP-FLOP
MC14014B	DIP16:SO16NB	14014	8-BIT STATIC SHIFT REGISTER
MC14015B	DIP16:SO16NB	4XREG	DUAL 4-BIT STATIC SHIFT REGISTER
MC14016B	DIP14:SO14NB	ANLSW	QUAD ANALOG SWITCH/QUAD MULTIPLEX
MC14017B	DIP16:SO16NB	14017	DECADE COUNTER
MC14018B	DIP16:SO16NB	14018	PRESETTABLE DIVIDE BY-N COUNTER
MC14020B	DIP16:SO16NB	14020	14-BIT BINARY COUNTER
MC14021B	DIP16:SO16NB	14014	8-BIT STATIC SHIFT REGISTER
MC14022B	DIP16:SO16NB	14022	OCTAL COUNTER
MC14023B	DIP14:SO14NB	NAND3	TRIPLE 3-INPUT NAND GATE
MC14023UB	DIP14:SO14NB	NAND3	TRIPLE 3-INPUT NAND GATE
MC14024B	DIP14:SO14NB	14024	7-STAGE RIPPLE COUNTER
MC14025B	DIP14:SO14NB	NOR3	TRIPLE 3-INPUT NOR GATE
MC14025UB	DIP14:SO14NB	NOR3	TRIPLE 3-INPUT NOR GATE
MC14027B	DIP16:SO16NB	CMOS-JK	DUAL J-K FLIP-FLOP
MC14028B	DIP16:SO16NB	14028	BCD TO DECIMAL DECODER (BINARY TO OCTAL DECODER)
MC14029B	DIP16:SO16NB	14029	BINARY/DECADE UP/DOWN COUNTER
MC1403	DIP8:SO8NB	8PIN	PRECISION LOW VOLTAGE REFERENCE
MC14032B	DIP16:SO16NB	14032	TRIPLE SERIAL ADDERS
MC14034B	DIP24-600:SO24WB	14034	8-BIT UNIVERSAL BUS REGISTER
MC14035B	DIP16:SO16NB	14035	4-BIT PARALLEL SHIFT REGISTER



**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC14038B	DIP16:SO16NB	14032	TRIPLE SERIAL ADDERS
MC1403AU	DIP8	8PIN	PRECISION LOW VOLTAGE REFERENCE
MC14040B	DIP16:SO16NB	14040	12-BIT BINARY COUNTER
MC14042B	DIP16:SO16NB	14042	QUAD TRANSPARENT LATCH
MC14043B	DIP16:SO16NB	CMOS-RS	QUAD R/S LATCH
MC14044B	DIP16:SO16NB	CMOS-RS	QUAD R/S LATCH
MC14046B	DIP16	14046	PHASE LOCKED LOOP
MC14049B	DIP16:SO16NB	INV	HEX BUFFER
MC14049UB	DIP16:SO16NB	INV	HEX BUFFER
MC1404AU10	DIP8	8PIN	PRECISION LOW DRIFT VOLTAGE REFERENCE
MC1404AU5	DIP8	8PIN	PRECISION LOW DRIFT VOLTAGE REFERENCE
MC1404AU6	DIP8	8PIN	PRECISION LOW DRIFT VOLTAGE REFERENCE
MC1404U10	DIP8	8PIN	PRECISION LOW DRIFT VOLTAGE REFERENCE
MC1404U5	DIP8	8PIN	PRECISION LOW DRIFT VOLTAGE REFERENCE
MC1404U6	DIP8	8PIN	PRECISION LOW DRIFT VOLTAGE REFERENCE
MC14050B	DIP16:SO16NB	INVNON	HEX BUFFER
MC14051B	DIP16:SO16NB	14051	ANALOG MULTIPLEXER/DEMUTIPLEXER
MC14052B	DIP16:SO16NB	14052	ANALOG MULTIPLEXER/DEMUTIPLEXER
MC14053B	DIP16:SO16NB	14053	ANALOG MULTIPLEXER/DEMUTIPLEXER
MC14060B	DIP16:SO16NB	14060	14-BIT BINARY COUNTER AND OSCILLATOR
MC14066B	DIP14:SO14NB	ANLSW	QUAD ANALOG SWITCH/QUAD MULTIPLEXER
MC14067B	DIP24- 600:SO24WB	14067	ANALOG MULTIPLEXER/DEMUTIPLEXER
MC14068B	DIP14:SO14NB	NAND8	8-INPUT NAND GATE
MC14069UB	DIP14:SO14NB	INV	HEX INVERTER
MC14070B	DIP14:SO14NB	XOR	QUAD EXCLUSIVE OR GATE
MC14071B	DIP14:SO14NB	OR2	QUAD 2-INPUT OR GATE
MC14072B	DIP14:SO14NB	OR4	DUAL 4-INPUT OR GATE
MC14073B	DIP14:SO14NB	AND3	TRIPLE 3-INPUT AND GATE
MC14075B	DIP14:SO14NB	OR3	TRIPLE 3-INPUT OR GATE

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC14076B	DIP16:SO16NB	14076	4-BIT D-TYPE REGISTER
MC14077B	DIP14:SO14NB	XNOR	QUAD EXCLUSIVE NOR GATE
MC14078B	DIP14:SO14NB	NOR8	8-INPUT NOR GATE
MC1408	DIP16	DAC-08	8-BIT D-TO-A CONVERTER
MC14081B	DIP14:SO14NB	AND2	QUAD 2-INPUT AND GATE
MC14082B	DIP14:SO14NB	AND4	DUAL 4-INPUT AND GATE
MC14093B	DIP14:SO14NB	NANDST	QUAD 2-INPUT NAND SCHMITT TRIGGER GATE
MC14094B	DIP16:SO16NB	14094	8-STAGE SHIFT/STORE REGISTER
MC14097B	DIP24-600:SO24WB	14097	ANALOG MULTIPLEXER/DEMULTIPLEXER
MC14099B	DIP16:SO16WB	14099	8-BIT ADDRESSABLE LATCH
MC14106B	DIP14:SO14NB	INVST	HEX SCHMITT TRIGGER
MC1411	DIP16:SO16NB	INV-DIO-C:INV-DIO	PERIPHERAL DRIVER ARRAY
MC1411B	DIP16:SO16NB	INV-DIO-C:INV-DIO	PERIPHERAL DRIVER ARRAY
MC1412	DIP16:SO16NB	INV-DIO-C:INV-DIO	PERIPHERAL DRIVER ARRAY
MC1412B	DIP16:SO16NB	INV-DIO-C:INV-DIO	PERIPHERAL DRIVER ARRAY
MC1413	DIP16:SO16NB	INV-DIO-C:INV-DIO	PERIPHERAL DRIVER ARRAY
MC1413B	DIP16:SO16NB	INV-DIO-C:INV-DIO	PERIPHERAL DRIVER ARRAY
MC1414	DIP14:SO14NB	OPAMP2-STB	DUAL DIFFERENTIAL COMPARATOR
MC1416	DIP16:SO16NB	INV-DIO-C:INV-DIO	PERIPHERAL DRIVER ARRAY
MC14160B	DIP16:SO16NB	14160	SYNCHRONOUS PRESETTABLE 4-BIT COUNTER
MC14161B	DIP16:SO16NB	14160	SYNCHRONOUS PRESETTABLE 4-BIT COUNTER
MC14162B	DIP16:SO16NB	14160	SYNCHRONOUS PRESETTABLE 4-BIT COUNTER
MC14163B	DIP16:SO16NB	14160	SYNCHRONOUS PRESETTABLE 4-BIT COUNTER
MC1416B	DIP16:SO16NB	INV-DIO-C:INV-DIO	PERIPHERAL DRIVER ARRAY
MC14174B	DIP16:SO16NB	14174	HEX D-TYPE FLIP-FLOP
MC14175B	DIP16:SO16NB	14175	QUAD D-TYPE FLIP-FLOP

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC14194B	DIP16:SO16NB	14194	4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER
MC142100	DIP16	16PIN	4X4 CROSSPOINT SWITCH WITH CONTROL MEMORY
MC142103	DIP16	16PIN	ENCODER/DECODER (TRANSCODER)
MC143403	DIP14	OPAMP2:OPAMP1	QUAD LINE DRIVER
MC143404	DIP14	OPAMP2:OPAMP1	QUAD LINE DRIVER
MC1436	TO-99:SO8NB:DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
MC1436C	TO-99:SO8NB:DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
MC1437	DIP14	OPAMP2-TRIM-C	DUAL MC1709 OPERATIONAL AMPLIFIER
MC1439	DIP8:TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
MC14400	DIP16	16PIN	CODEC-FILTER PCM MONO-CIRCUIT
MC14401	DIP18	18PIN	CODEC-FILTER PCM MONO-CIRCUIT
MC14402	DIP22-400	22PIN	CODEC-FILTER PCM MONO-CIRCUIT
MC14403	DIP16	16PIN	CODEC-FILTER PCM MONO-CIRCUIT
MC14405	DIP16	16PIN	CODEC-FILTER PCM MONO-CIRCUIT
MC14408	DIP16	16PIN	BINARY TO PHONE PULSE CONVERTER SUBSYSTEM
MC14409	DIP16	16PIN	BINARY TO PHONE PULSE CONVERTER SUBSYSTEM
MC14410	DIP16	16PIN	2-OF-8 TONE ENCODER
MC14411	DIP24-600	14411	BIT RATE GENERATOR
MC14412	DIP16	16PIN	UNIVERSIAL LOW SPEED (0-600 BPS) MODEM
MC14413-1	DIP16	16PIN	PULSE CODE MODULATION SAAMPLED DATA FILTER
MC14413-2	DIP16	16PIN	PULSE CODE MODULATION SAAMPLED DATA FILTER
MC14414-1	DIP16	16PIN	PULSE CODE MODULATION SAAMPLED DATA FILTER
MC14414-2	DIP16	16PIN	PULSE CODE MODULATION SAAMPLED DATA FILTER

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC14415	DIP16:SO16WB	14415	QUAD PRECISION TIMER/DRIVER
MC14416	DIP16	16PIN	TSAC TIME SLOT ASSIGNER CIRCUIT
MC14417	DIP18	18PIN	TSAC TIME SLOT ASSIGNER CIRCUIT
MC14418	DIP22-400	22PIN	TSAC TIME SLOT ASSIGNER CIRCUIT
MC14419	DIP16	16PIN	2-OF-8 KEYPAD-TO-BINARY ENCODER
MC1445L	DIP14	OPAMP-2CH-G	GATE CONTROLLED TWO CHANNEL INPUT WIDEBAND AMP
MC14490	DIP16:SO16WB	14490	HEX CONTACT BOUNCE ELIMINATOR
MC14500B	DIP16:SO16WB	14500	INDUSTRIAL CONTROL UNIT
MC14501UB	DIP16:SO16NB	NAND4:NOR2X2	TRIPLE GATE
MC14502B	DIP16:SO16NB	NOR2-ENA:NORINHENA	STROBE HEX INVERTER/BUFFER
MC14503B	DIP16:SO16NB	14503A:14503B	HEX NON-INVERTING/BUFFER
MC14504B	DIP16:SO16NB	INVNONE:INVNON	HEX LEVEL SHIFTER
MC14506UB	DIP16:SO16NB	14506	DUAL 2-WIDE, 2-INPUT EXPANDER
MC14508B	DIP24-600:SO24WB	14508	DUAL 4-BIT LATCH
MC145100	DIP16	16PIN	4X4 CROSSPOINT SWITCH WITH CONTROL MEMORY
MC14510B	DIP16:SO16NB	14510	BCD UP/DOWN COUNTER
MC14511B	DIP16:SO16NB:SO16WB	14511	BCD TO 7 SEGMENT LATCH/DECODER/DRIVER
MC14512B	DIP16:SO16NB	14512	8-CHANNEL DATA SELECTOR
MC14513B	DIP18	14513	BCD TO 7 SEGMENT LATCH/DECODER/DRIVER
MC14514B	DIP24-600:SO24WB	14514	4-BIT TRANSPARENT LATCH/4 TO 16 LINE DECODER
MC14515B	DIP24-600:SO24WB	14514	4-BIT TRANSPARENT LATCH/4 TO 16 LINE DECODER
MC14516B	DIP16:SO16NB	14510	BINARY UP/DOWN COUNTER
MC14517B	DIP16:SO16WB	14517	DUAL 64-BIT STATIC SHIFT REGISTER
MC14518B	DIP16:SO16WB	14518	DUAL UP COUNTERS
MC14519B	DIP16:SO16NB	14519	QUAD 2-CHANNEL DATA SELECTOR

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC14520B	DIP16:SO16WB	14518	DUAL UP COUNTERS
MC14521B	DIP16:SO16NB	14521	24-STAGE FREQUENCY DIVIDER
MC14522B	DIP16:SO16WB	14522	PRESETTABLE 4-BIT DOWN COUNTER
MC14526B	DIP16:SO16WB	14522	PRESETTABLE 4-BIT DOWN COUNTER
MC14527B	DIP16:SO16WB	14527	BCD RATE MULTIPLIER
MC14528B	DIP16:SO16NB	14528	DUAL MONOSTABLE MULTIVIBRATOR
MC14529B	DIP16:SO16NB	14529	DUAL 4-CHANNEL ANALOG DATA SELECTOR
MC14530B	DIP16:SO16NB	14530	DUAL 5-INPUT MAJORITY LOGIC GATE
MC14531B	DIP16:SO16NB	14531	12-BIT PARITY TREE
MC14532B	DIP16:SO16NB	14532	8-BIT PRIORITY ENCODER
MC14534B	DIP24-600:SO24WB	14534	5 CASCADED BCD COUNTERS
MC14536B	DIP16:SO16WB	14536	PROGRAMMABLE TIMER
MC14538B	DIP16:SO16WB	14538	DUAL PRECISION MONOSTABLE MULTIVIBRATOR
MC14539B	DIP16:SO16NB	14529	DUAL 4-CHANNEL DATA SELECTOR/MULTIPLEXER
MC145402L	DIP16	145402	SERIAL 13-BIT LINEAR CODEC (A/D AND D/A)
MC145406	DIP16:SO16WB	INV-R:INV-D	EIA-232-D/V.28 DRIVER/RECEIVER (RS-232-C)
MC145407	DIP20:SO20WB	145407:INV-R:INV-D	5-VOLT-ONLY DRIVER/RECEIVER (EIA-232-D&CCITT V.28)
MC145411P	DIP16	145411	BIT RATE GENERATOR
MC145412P	DIP18	18PIN	PULSE/TONE REPERTORY DIALER
MC145413P	DIP18	18PIN	PULSE/TONE REPERTORY DIALER
MC145414	DIP16	16PIN	DUAL TUNABLE LOW PASS SAMPLE DATA FILTER
MC145415	DIP16	16PIN	DUAL TUNABLE LINEAR PHASE LOW PASS SAMPLE DATA FILTER
MC145418	DIP22-400	22PIN	DIGITAL LOOP TRANSCEIVER (DLT)
MC145419	DIP22-400	22PIN	DIGITAL LOOP TRANSCEIVER (DLT)
MC14541B	DIP14:SO14NB	14541	PROGRAMMABLE TIMER

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC145421P	DIP24-600	24PIN	ISDN UNIVERSAL DIGITAL LOOP TRANSCEIVER II (UDLT II)
MC145422L	DIP22-400	22PIN	UNIVERSAL DIGITAL LOOP TRANSCEIVER (UDLT)
MC145425P	DIP24-600	24PIN	ISDN UNIVERSAL DIGITAL LOOP TRANSCEIVER II (UDLT II)
MC145426L	DIP22-400	22PIN	UNIVERSAL DIGITAL LOOP TRANSCEIVER (UDLT)
MC145428	DIP20	20PIN	DATA SET INTERFACE
MC145429	DIP18	18PIN	TELSET AUDIO INTERFACE CIRCUIT
MC145432	DIP18	18PIN	2600 HZ TONE SIGNALLING FILTER
MC145433L	DIP16	16PIN	TUNEABLE NOTCH BAND-PASS FILTER
MC145436P	DIP14	14PIN	DUAL TONE MULTIPLE FREQUENCY RECEIVER
MC145439	DIP20	20PIN	ENCODER/DECODER (TRANSCODER)
MC14543B	DIP16:SO16NB	14543	BCD TO 7-SEGMENT DECODER/DRIVER
MC145440	DIP18	18PIN	BELL 103 300 BAUD MODEM BAND PASS FILTER
MC145441	DIP18	18PIN	CCITT V.21 300 BAUD MODEM BAND PASS FILTER
MC145442	DIP20:SO20WB	20PIN	SINGLE CHIP 300 BAUD MODEM
MC145443	DIP20:SO20WB	20PIN	SINGLE CHIP 300 BAUD MODEM
MC145445	DIP22-400	22PIN	300 BAUD FSK MODEM
MC14544B	DIP18	14544	BCD TO 7 SEGMENT LATCH/DECODER/DRIVER
MC145450	DIP22-400	22PIN	1200 BAUD FSK MODEM
MC14547B	DIP16:SO16WB	14547	HIGH CURRENT BCD TO 7 SEGMENT DECODER/DRIVER
MC14549B	DIP16:SO16WB	14549	SUCCESSIVE APPROXIMATION REGISTER
MC1454G	TO-100	PWRAMP-8	1-WATT POWER AMPLIFIER
MC145500L	DIP16	16PIN	PCM CODEC/FILTER MONO-CIRCUIT
MC145501L	DIP18	18PIN	PCM CODEC/FILTER MONO-CIRCUIT
MC145502	DIP22-400	22PIN	PCM CODEC/FILTER MONO-CIRCUIT

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC145502FN	PLCC28SQ	22PIN	PCM CODEC/FILTER MONO-CIRCUIT
MC145503	DIP16:SO16NB	16PIN	PCM CODEC/FILTER MONO-CIRCUIT
MC145505	DIP16:SO16NB	16PIN	PCM CODEC/FILTER MONO-CIRCUIT
MC145512P	DIP18	18PIN	PULSE/TONE REPERTORY DIALER
MC14551B	DIP16:SO16NB	14551	QUAD 2-CHANNEL ANALOG MUX/DEMUX
MC145532L	DIP16	16PIN	ADPCM TRANSCODER
MC14553B	DIP16:SO16WB	14553	3-DIGIT BCD COUNTER
MC14554B	DIP16:SO16NB	14554	2X2 BINARY MULTIPLIER
MC145554	DIP16:SO16WB	16PIN	PCM CODEC-FILTER
MC145557	DIP16:SO16WB	16PIN	PCM CODEC-FILTER
MC14555B	DIP16:SO16NB	14555	DUAL BINARY 1-OF-4 DECODER/MUX
MC145564	DIP20:SO20WB	20PIN	PCM CODEC-FILTER
MC145567	DIP20:SO20WB	20PIN	PCM CODEC-FILTER
MC14556B	DIP16:SO16NB	14556	DUAL BINARY 1-OF-4 DECODER/MUX
MC14557B	DIP16:SO16WB	14557	1-TO-64 BIT VARIABLE LENGTH SHIFT REGISTER
MC14558B	DIP16:SO16NB	14558	BCD TO 7 SEGMENT DECODER
MC14559B	DIP16:SO16WB	14549	SUCCESSIVE APPROXIMATION REGISTER
MC1456	TO-99:DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
MC14560B	DIP16:SO16NB	14560	NBCD ADDER
MC14561B	DIP14:SO14NB	14561	9'S COMPLEMENTER
MC14562B	DIP14:SO14NB	14562	128-BIT STATIC SHIFT REGISTER
MC14566B	DIP16:SO16NB	14566	INDUSTRIAL TIME BASE GENERATOR
MC14568B	DIP16:SO16NB	14568	PHASE COMPARATOR AND PROG. COUNTER
MC14569B	DIP16:SO16WB	14569	DUAL 4-BIT BINARY/BCD COUNTER
MC1456C	TO-99:DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
MC14572UB	DIP16:SO16NB	INV:NOR2:NAND2	HEX GATE
MC1458	TO-99:SO8NB:DIP8	OPAMP2	DUAL OPERATIONAL AMPLIFIER
MC14580B	DIP24-600:SO24WB	14580	4X4 MULTIPOINT REGISTER



**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC14581B	DIP24-600:SO24WB	14581	4-BIT ARITHMETIC UNIT
MC14582B	DIP16:SO16NB	14582	LOOK-AHEAD CARRY BLOCK
MC14583B	DIP16:SO16NB	14583	DUAL SCHMITT TRIGGER
MC14584B	DIP14:SO14NB	INVST	HEX SCHMITT TRIGGER
MC14585B	DIP16:SO16NB	14585	4-BIT MAGNITUDE COMPARATOR
MC1458C	TO-99:SO8NB:DIP8	OPAMP2	DUAL OPERATIONAL AMPLIFIER
MC1458S	TO-99:SO8NB:DIP8	OPAMP2	DUAL OPERATIONAL AMPLIFIER
MC14597B	DIP16:SO16NB	14597	8-BIT BUS COMPATIBLE LATCH
MC14598B	DIP18	14598	8-BIT BUS COMPATIBLE LATCH
MC14599B	DIP18	14599	8-BIT ADDRESSABLE LATCH
MC1466L	DIP14	1466	PRECISION WIDE RANGE VOLTAGE/CURRENT REGULATOR
MC146805E2	DIP40-600	DIP38	8-BIT MICROPROCESSOR UNIT
MC146805E2Z	CC40-40	DIP38	8-BIT MICROPROCESSOR UNIT
MC146805F2	DIP28-600:PLCC28SQ	68704	8-BIT MICROCONTROLLER UNIT
MC146805F2Z	CC40-40	DIP26	8-BIT MICROCOMPUTER UNIT
MC146805G2	DIP40-600	6805	8-BIT MICROCONTROLLER UNIT
MC146805G2FN	PLCC44	6805	8-BIT MICROCONTROLLER UNIT
MC146805G2Z	CC40-40	DIP38	8-BIT MICROPROCESSOR UNIT
MC146805H2	DIP40-600	DIP38	8-BIT MICROPROCESSOR UNIT
MC146805H2Z	CC40-40	DIP38	8-BIT MICROPROCESSOR UNIT
MC146818	DIP24-600	MC146818	REAL-TIME CLOCK PLUS RAM
MC146818A	DIP24-600	DIP22	REAL-TIME CLOCK PLUS RAM
MC146823	DIP40-600	MC146823	CMOS PARALLEL INTERFACE (CPI)
MC146823P	DIP40-600	146823	CMOS PARALLEL INTERFACE
MC1468705F2	DIP28-600	DIP26	8-BIT MICROCOMPUTER UNIT
MC1468705G2	DIP40-600	DIP38	8-BIT MICROPROCESSOR UNIT



**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC1468G	TO-100	1468G	DUAL +/- 15 VOLT TRACKING REGULATOR
MC1468L	DIP14	1468L	DUAL +/- 15 VOLT TRACKING REGULATOR
MC1472	DIP8	1472	DUAL PERIPHERAL POSITIVE "NAND" DRIVERS
MC1488	DIP14:SO14NB	NAND1:NAND2	QUAD MDTL LINE DRIVER, RS-232C
MC1489	DIP14:SO14NB	NAND-E	QUAD MDTL LINE RECEIVER, RS-232C
MC1489A	DIP14:SO14NB	NAND-E	QUAD MDTL LINE RECEIVER, RS-232C
MC1490P	DIP8	OPAMP-2X2-C	WIDEBAND AMPLIFIER WITH AGC
MC1503U	DIP8	8PIN	PRECISION LOW VOLTAGE REFERENCE
MC1504U10	DIP8	8PIN	PRECISION LOW DRIFT VOLTAGE REFERENCE
MC1504U5	DIP8	8PIN	PRECISION LOW DRIFT VOLTAGE REFERENCE
MC1504U6	DIP8	8PIN	PRECISION LOW DRIFT VOLTAGE REFERENCE
MC1508	DIP16	DAC-08	8-BIT D-TO-A CONVERTER
MC1514	DIP14:SO14NB	OPAMP2-STB	DUAL DIFFERENTIAL COMPARATOR
MC1536	TO-99:DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
MC1537	DIP14	OPAMP2-TRIM-C	DUAL MC1709 OPERATIONAL AMPLIFIER
MC1539	DIP8:TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
MC1545L	DIP14	OPAMP-2CH-G	GATE CONTROLLED TWO CHANNEL INPUT WIDEBAND AMP
MC1554G	TO-100	PWRAMP-8	1-WATT POWER AMPLIFIER
MC1556	TO-99:DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
MC1558	TO-99:DIP8	OPAMP2	DUAL OPERATIONAL AMPLIFIER
MC1558S	TO-99:DIP8	OPAMP2	DUAL OPERATIONAL AMPLIFIER
MC1568G	TO-100	1468G	DUAL +/- 15 VOLT TRACKING REGULATOR
MC1590G	TO-99	OPAMP-2X2-C	WIDEBAND AMPLIFIER WITH AGC
MC1648	DIP14	1648	VOLTAGE CONTROLLED OSCILLATOR
MC1650	DIP16	1650	DUAL A/D CONVERTER
MC1651	DIP16	1650	DUAL A/D CONVERTER (LOW INPUT IMPEDANCE)
MC1658	DIP16	1658	VOLTAGE CONTROLLED MULTIVIBRATOR
MC1660	DIP16	XOR4X2	DUAL 4-INPUT OR/NOR GATE

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC1662	DIP16	NOR2	QUAD 2-INPUT NOR GATE
MC1664	DIP16	OR2	QUAD 2-INPUT OR GATE
MC1670	DIP16	1670	MASTER-SLAVE FLIP-FLOP
MC1672	DIP16	XOR	ECL TRIPLE 2-INPUT XOR GATE
MC1674	DIP16	XNOR	ECL TRIPLE 2-INPUT XNOR GATE
MC1692	DIP16	RCVR-VBB:RCVR	QUAD LINE RECEIVER
MC1709	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
MC1709A	TO-99:DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
MC1709C	TO-99:DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
MC1723C	DIP14:SO14NB	1723	VOLTAGE REGULATOR
MC1723CG	TO-100	1723	VOLTAGE REGULATOR
MC1723G	TO-100	1723	VOLTAGE REGULATOR
MC1723L	DIP14	1723	VOLTAGE REGULATOR
MC1733C	DIP14:SO14NB	OPAMP-WB	DIFFERENTIAL VIDEO WIDEBAND AMPLIFIER
MC1733CG	TO-100	OPAMP-WB	DIFFERENTIAL VIDEO WIDEBAND AMPLIFIER
MC1733G	TO-100	OPAMP-WB	DIFFERENTIAL VIDEO WIDEBAND AMPLIFIER
MC1733L	DIP14	OPAMP-WB	DIFFERENTIAL VIDEO WIDEBAND AMPLIFIER
MC1741	TO-99:DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
MC1741C	TO-99:SO8NB:DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
MC1741SC	TO-99:SO8NB:DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
MC1741SG	TO-99	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
MC1747	DIP14	OPAMP2-TRIM	DUAL MC1741 OPERATIONAL AMPLIFIER
MC1747C	DIP14:SO14NB	OPAMP2-TRIM	DUAL MC1741 OPERATIONAL AMPLIFIER
MC1747CG	TO-100	OPAMP2	DUAL 1741 OPERATIONAL AMPLIFIER
MC1747G	TO-100	OPAMP2	DUAL 1741 OPERATIONAL AMPLIFIER
MC1748	TO-99:DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
MC1748C	TO-99:DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
MC1776	TO-99:DIP8	OPAMP2-TRIM-C	PROGRAMMABLE OPERATIONAL AMPLIFIER

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC1776C	TO-99:SO8NB:DIP8	OPAMP2-TRIM-C	PROGRAMMABLE OPERATIONAL AMPLIFIER
MC2670	DIP28-600	2670	DISPLAY CHARACTER AND GRAPHICS GENERATOR (DCGG)
MC2671	DIP40-600	DIP38	PROGRAMMABLE KEYBD. AND COMMUNICATIONS CONTROLLER
MC2672	DIP40-600	2672	PROGRAMMABLE VIDEO TIMING CONTROLLER
MC2672A	LCC44SQ	2672	PROGRAMMABLE VIDEO TIMING CONTROLLER (PVTC) (PLCC)
MC2673	DIP40-600	DIP38	VIDEO ATTRIBUTES CONTROLLER (VAC)
MC2674	DIP40-600	2672	ADVANCED PROGRAMMABLE VIDEO TIMING CONTROLLER
MC2674A	LCC44SQ	2672	ADVANCED VIDEO DISPLAY CONTROLLER (AVDC)(PLCC VERSION)
MC26S10	DIP16:SO16NB	26S10	QUAD OPEN-COLLECTOR BUS TRANSCEIVER
MC2831A	DIP16:SO16NB	16PIN	LOW POWER FM TRANSMITTER SYSTEM
MC2833	DIP16:SO16NB	16PIN	LOW POWER FM TRANSMITTER SYSTEM
MC3301P	DIP14	OPAMP1	QUAD OPERATIONAL AMPLIFIER
MC3302	DIP14	OPAMP2	QUAD COMPARATOR
MC3303	DIP14:SO14NB	OPAMP2	QUAD DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
MC33030P	DIP16	16PIN	DC SERVO MOTOR CONTROLLER/DRIVER
MC33034	DIP24-300:SO24WB	33034	BRUSHLESS DC MOTOR CONTROLLER
MC33039	DIP8:SO8NB	8PIN	CLOSED-LOOP BRUSHLESS MOTOR ADAPTER
MC33060A	DIP14:SO14NB	34060	SWITCHMODE PULSE WIDTH MODULATION CONTROL CIRCUIT
MC33063	DIP8	8PIN	DC-TO-DC CONVERTER CONTROL CIRCUIT
MC33063A	DIP8:SO8NB	8PIN	DC-TO-DC CONVERTER CONTROL CIRCUIT
MC33064D-5	SO8NB	V-SENSE	UNDERVOLTAGE SENSING CIRCUIT
MC33064P-5	TO-92:TO-92D	V-SENSE	UNDERVOLTAGE SENSING CIRCUIT

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC33065	DIP16:SO16WB	16PIN	DUAL CHANNEL CURRENT MODE CONTROLLER
MC33066	DIP16:SO16WB	16PIN	RESONANT MODE CONTROLLER
MC33071	DIP8:SO8NB	OPAMP2-TRIM	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC33071A	DIP8:SO8NB	OPAMP2-TRIM	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC33072	DIP8:SO8NB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC33072A	DIP8:SO8NB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC33074	DIP14:SO14NB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC33074A	DIP14:SO14NB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC33077	DIP8:SO8NB	OPAMP2	DUAL LOW NOISE OPERATIONAL AMPLIFIER
MC33078	DIP8:SO8NB	OPAMP2	DUAL LOW NOISE OPERATIONAL AMPLIFIER
MC33079	DIP14:SO14NB	OPAMP2	QUAD LOW NOISE OPERATIONAL AMPLIFIER
MC33120	DIP20:SO20WB	20PIN	SUBSCRIBER LOOP INTERFACE CIRCUIT (SLIC)
MC33129	DIP14:SO14NB	14PIN	HIGH PERFORMANCE CURRENT MODE CONTROLLER
MC33151	DIP8:SO8NB	INVST	HIGH SPEED DUAL MOSFET DRIVER
MC33171	DIP8:SO8NB	OPAMP2-TRIM	LOW POWER SINGLE SUPPLY OPERATIONAL AMPLIFIER
MC33172	DIP8:SO8NB	OPAMP2	LOW POWER SINGLE SUPPLY OPERATIONAL AMPLIFIER
MC33174	DIP14:SO14NB	OPAMP2	LOW POWER SINGLE SUPPLY OPERATIONAL AMPLIFIER
MC33178	DIP8:SO8NB	OPAMP2	HIGH CURRENT/LOW POWER OPERATIONAL AMPLIFIER
MC33179	DIP14:SO14NB	OPAMP2	HIGH CURRENT/LOW POWER OPERATIONAL AMPLIFIER
MC33181	DIP8:SO8NB	OPAMP2-TRIM	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC33182	DIP8:SO8NB	OPAMP2	LOW POWER,JFET INPUT, OPERATIONAL AMPLIFIER
MC33184	DIP14:SO14NB	OPAMP2	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
MC33272	DIP8:SO8NB	OPAMP2	HIGH PERFORMANCE OPERATIONAL AMPLIFIER
MC33274	DIP14:SO14NB	OPAMP2	HIGH PERFORMANCE OPERATIONAL AMPLIFIER
MC33282	DIP8:SO8NB	OPAMP2	JFET OPERATIONAL AMPLIFIER
MC33284	DIP14:SO14NB	OPAMP2	JFET OPERATIONAL AMPLIFIER
MC3356	DIP20	20PIN	WIDEBAND FSK RECEIVER
MC3357	DIP16:SO16NB	16PIN	LOW POWER FM IF
MC3358P	DIP8	OPAMP2	DUAL DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
MC3359DW	SO20WB	18PIN	HIGH GAIN LOW POWER FM IF
MC3359P	DIP18	18PIN	HIGH GAIN LOW POWER FM IF
MC3361	DIP16:SO16NB	16PIN	LOW POWER FM IF
MC3362	DIP24-300:SO24WB	24PIN	LOW POWER DUAL CONVERSION FM RECEIVER
MC3363DW	SO28WB	28PIN	LOW POWER DUAL CONVERSION FM RECEIVER
MC3367DW	SO28WB	28PIN	LOW POWER SINGLE CONVERSION FM RECEIVER
MC34001	TO-99:SO8NB:DIP8	OPAMP2-TRIM	JFET INPUT OPERATIONAL AMPLIFIER
MC34001B	TO-99:SO8NB:DIP8	OPAMP2-TRIM	JFET INPUT OPERATIONAL AMPLIFIER
MC34002	TO-99:SO8NB:DIP8	OPAMP2	JFET INPUT OPERATIONAL AMPLIFIER
MC34002B	TO-99:SO8NB:DIP8	OPAMP2	JFET INPUT OPERATIONAL AMPLIFIER
MC34004	DIP14	OPAMP2	JFET OPERATIONAL AMPLIFIER
MC34004B	DIP14	OPAMP2	JFET OPERATIONAL AMPLIFIER
MC3401	DIP14:SO14NB	OPAMP1	QUAD OPERATIONAL AMPLIFIER

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC34010FN	PLCC44	40PIN	ELECTRONIC TELEPHONE CIRCUIT
MC34010P	DIP40-600	40PIN	ELECTRONIC TELEPHONE CIRCUIT
MC34011AFN	PLCC44	40PIN	ELECTRONIC TELEPHONE CIRCUIT
MC34011AP	DIP40-600	40PIN	ELECTRONIC TELEPHONE CIRCUIT
MC34012-1	DIP8	8PIN	TELEPHONE TONE RINGER
MC34012-2	DIP8	8PIN	TELEPHONE TONE RINGER
MC34012-3	DIP8	8PIN	TELEPHONE TONE RINGER
MC34013A	DIP28-600:PLCC28SQ	28PIN	SPEECH NETWORK AND TONE DIALER
MC34014DW	SO20WB	18PIN	TELEPHONE SPEECH NETWORK WITH DIALER INTERFACE
MC34014FN	PLCC20SQ	18PIN	TELEPHONE SPEECH NETWORK WITH DIALER INTERFACE
MC34014P	DIP18	18PIN	TELEPHONE SPEECH NETWORK WITH DIALER INTERFACE
MC34017	DIP8	8PIN	TELEPHONE TONE RINGER
MC34018	DIP28-600:SO28WB:PLCC28SQ	28PIN	VOICE SWITCHED SPEAKERPHONE CIRCUIT
MC3403	DIP14:SO14NB	OPAMP2	QUAD DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
MC3405	DIP14	OPAMP1:OPAMP2	DUAL OPERATIONAL AMPLIFIER/DUAL VOLTAGE COMPARATOR
MC34050	DIP16:SO16NB	RCVR-EIA422/3A:DRV-EIA422B	DUAL EIA-422/423 TRANSCEIVER
MC34051	DIP16:SO16NB	RCVR-EIA422:DRV-EIA422C	DUAL EIA-422/423 TRANSCEIVER
MC34060	DIP14	34060	SWITCHMODE PULSE WIDTH MODULATION CONTROL CIRCUIT
MC34060A	DIP14:SO14NB	34060	SWITCHMODE PULSE WIDTH MODULATION CONTROL CIRCUIT
MC34063	DIP8	8PIN	DC-TO-DC CONVERTER CONTROL CIRCUIT
MC34063A	DIP8:SO8NB	8PIN	DC-TO-DC CONVERTER CONTROL CIRCUIT
MC34064D-5	SO8NB	V-SENSE	UNDERVOLTAGE SENSING CIRCUIT

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC34064P-5	TO-92	V-SENSE	UNDERVOLTAGE SENSING CIRCUIT
MC34065	DIP16:SO16WB	16PIN	DUAL CHANNEL CURRENT MODE CONTROLLER
MC34066	DIP16:SO16WB	16PIN	RESONAT MODE CONTROLLER
MC34071	DIP8:SO8NB	OPAMP2-TRIM	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC34071A	DIP8:SO8NB	OPAMP2-TRIM	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC34072	DIP8:SO8NB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC34072A	DIP8:SO8NB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC34074	DIP14:SO14NB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC34074A	DIP14:SO14NB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC34081	DIP8:SO8NB	OPAMP2-TRIM	HIGH PERFORMANCE, JFET INPUT, OPERATIONAL AMPLIFIER
MC34081A	DIP8:SO8NB	OPAMP2-TRIM	HIGH PERFORMANCE, JFET INPUT, OPERATIONAL AMPLIFIER
MC34082AP	DIP8	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC34082P	DIP8	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC34084ADW	SO16WB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC34084AP	SO16WB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC34084DW	SO16WB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC34084P	SO16WB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC34114DW	SO20WB	18PIN	TELEPHONE SPEECH NETWORK WITH DIAL INTERFACE
MC34114P	DIP18	18PIN	TELEPHONE SPEECH NETWORK WITH DIAL INTERFACE



**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC34115P	DIP16	16PIN	CONTINUOUSLY VARIABLE SLOPE DELTA MOD/DMOD
MC34118	DIP28-600:SO28WB	28PIN	VOICE SWITCHED SPEAKERPHONE CIRCUIT
MC34119	DIP8:SO8NB	8PIN	LOW POWEWR AUDIO AMPLIFIER
MC34129	DIP14:SO14NB	14PIN	HIGH PERFORMANCE CURRENT MODE CONTROLLER
MC34151	DIP8:SO8NB	INVST	HIGH SPEED DUAL MOSFET DRIVER
MC3417	DIP16:SO16WB	16PIN	CONTINUOUSLY VARIABLE SLOPE DELTA MOD/DMOD
MC3418	DIP16:SO16WB	16PIN	CONTINUOUSLY VARIABLE SLOPE DELTA MOD/DMOD
MC34181	DIP8:SO8NB	OPAMP2-TRIM	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
MC34182	DIP8:SO8NB	OPAMP2	LOW POWER,JFET INPUT, OPERATIONAL AMPLIFIER
MC34184	DIP14:SO14NB	OPAMP2	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
MC3419-1L	DIP18	18PIN	SUBSCRIBER LOOP INTERFACE CIRCUIT (SLIC)
MC3423	DIP8:SO8NB	8PIN	OVERVOLTAGE SENSING CIRCUIT
MC3425P1	DIP8	8PIN	UNDER-OVER-VOLTAGE PROTECTION CIRCUIT
MC3430	DIP16	3430	QUAD HIGH SPEED VOLTAGE COMPARATOR
MC3431	DIP16	3430	QUAD HIGH SPEED VOLTAGE COMPARATOR
MC3432	DIP16	3430	QUAD HIGH SPEED VOLTAGE COMPARATOR
MC3433	DIP16	3430	QUAD HIGH SPEED VOLTAGE COMPARATOR
MC3437	DIP16	3437	HEX BUS RECEIVER
MC3440A	DIP16	3440A	QUAD INTERFACE BUS TRANSCEIVER
MC3441A	DIP16	3440A	QUAD INTERFACE BUS TRANSCEIVER
MC3443A	DIP16	3440	QUAD GENERAL PURPOSE INTERFACE BUS TRANSCEIVERS
MC3446A	DIP16	3446A	QUAD INTERFACE BUS TRANSCEIVER



**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC3447	DIP24-300:DIP24-600	3447	OCTAL BIDIRECTIONAL BUS TRANSCEIVER W/TERMINATION
MC3448A	DIP16:SO16NB	3446A	QUAD THREE-STATE BUS TRANSCEIVER WITH TERMINATION
MC3450	DIP16:SO16NB	3450	QUAD LINE RECEIVER WITH COMMON 3-STATE STROBE
MC3452	DIP16:SO16NB	3450	QUAD LINE RECEIVER WITH COMMON 3-STATE STROBE
MC3453	DIP16	3453	QUAD LINE DRIVER WITH COMMON INHIBIT INPUT
MC3458	TO-99:SO8NB:DIP8	OPAMP2	DUAL DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
MC3467	DIP18	LRCV RVBB	TRIPLE MAGNETIC TAPE MEMORY PRE-AMPLIFIER
MC3469P	DIP16	16PIN	FLOPPY DISK WRITE CONTROLLER
MC3470AP	DIP18	18PIN	FLOPPY DISK READ AMPLIFIER SYSTEM
MC3470P	DIP18	18PIN	FLOPPY DISK READ AMPLIFIER SYSTEM
MC3471P	DIP20	20PIN	FLOPPY DISK WRITE CONTROLLER
MC3476	TO-99:DIP8	OPAMP2-TRIM-C	LOW COST PROGRAMMABLE OPERATIONAL AMPLIFIER
MC3479FN	PLCC20SQ	20PIN	STEPPER MOTOR DRIVER
MC3479P	DIP16	16PIN	STEPPER MOTOR DRIVER
MC3486	DIP16:SO16NB	RCVR-EIA422/3	QUAD EIA-422/3 LINE RECEIVER WITH 3-STATE OUTPUTS
MC3487	DIP16:SO16NB	DRV-EIA422B	QUAD EIA-422 LINE DRIVER WITH 3-STATE OUTPUTS
MC3488A	DIP8:SO8NB	DRV-EIA423/232	DUAL EIA-423/EIA-232D DRIVER
MC35001	TO-99:DIP8	OPAMP2-TRIM	JFET INPUT OPERATIONAL AMPLIFIER
MC35001B	TO-99:DIP8	OPAMP2-TRIM	JFET INPUT OPERATIONAL AMPLIFIER
MC35002	TO-99:DIP8	OPAMP2	JFET INPUT OPERATIONAL AMPLIFIER
MC35002B	TO-99:DIP8	OPAMP2	JFET INPUT OPERATIONAL AMPLIFIER
MC35004BL	DIP14	OPAMP2	JFET OPERATIONAL AMPLIFIER
MC35004L	DIP14	OPAMP2	JFET OPERATIONAL AMPLIFIER

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC3503L	DIP14	OPAMP2	QUAD DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
MC3505L	DIP14	OPAMP1:OPAMP2	DUAL OPERATIONAL AMPLIFIER/DUAL VOLTAGE COMPARATOR
MC35060AL	DIP14	34060	SWITCHMODE PULSE WIDTH MODULATION CONTROL CIRCUIT
MC35060L	DIP14	34060	SWITCHMODE PULSE WIDTH MODULATION CONTROL CIRCUIT
MC35063AU	DIP8	8PIN	DC-TO-DC CONVERTER CONTROL CIRCUIT
MC35063U	DIP8	8PIN	DC-TO-DC CONVERTER CONTROL CIRCUIT
MC35071AU	DIP8	OPAMP2-TRIM	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC35071U	DIP8	OPAMP2-TRIM	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC35072AU	DIP8:SO8NB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC35072U	DIP8:SO8NB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC35074AL	DIP14:SO14NB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC35074L	DIP14:SO14NB	OPAMP2	HIGH PERFORMANCE, SINGLE SUPPLY, OPERATIONAL AMPLIFIER
MC35081AU	DIP8	OPAMP2-TRIM	HIGH PERFORMANCE, JFET INPUT, OPERATIONAL AMPLIFIER
MC35081U	DIP8	OPAMP2-TRIM	HIGH PERFORMANCE, JFET INPUT, OPERATIONAL AMPLIFIER
MC35084AL	DIP14	OPAMP2	HIGH PERFORMANCE, JFET INPUT, OPERATIONAL AMPLIFIER
MC35084L	DIP14	OPAMP2	HIGH PERFORMANCE, JFET INPUT, OPERATIONAL AMPLIFIER
MC3517	DIP16:SO16WB	16PIN	CONTINUOUSLY VARIABLE SLOPE DELTA MOD/DMOD
MC35171U	DIP8	OPAMP2-TRIM	LOW POWER SINGLE SUPPLY OPERATIONAL AMPLIFIER
MC35172U	DIP8	OPAMP2	LOW POWER SINGLE SUPPLY OPERATIONAL AMPLIFIER

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC35174L	DIP14	OPAMP2	LOW POWER SINGLE SUPPLY OPERATIONAL AMPLIFIER
MC3518	DIP16:SO16WB	16PIN	CONTINUOUSLY VARIABLE SLOPE DELTA MOD/DMOD
MC35181U	DIP8	OPAMP2-TRIM	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
MC35182U	DIP8	OPAMP2	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
MC35184L	DIP14	OPAMP2	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
MC3523U	DIP8	8PIN	OVERVOLTAGE SENSING CIRCUIT
MC3558	TO-99:DIP8	OPAMP2	DUAL DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER
MC3870	DIP40-600	3870	SINGLE-CHIP MICROCONTROLLER
MC4016	DIP16	MODULO-N	PROGRAMMABLE MODULO-N COUNTER
MC4018	DIP16	MODULO-N	PROGRAMMABLE MODULO-N COUNTER
MC4024	DIP14	VCM	DUAL VOLTAGE-CONTROLLER MULTIVIBRATOR
MC4044	DIP14	PFD	PHASE-FREQUENCY DETECTOR
MC4316	DIP16	MODULO-N	PROGRAMMABLE MODULO-N COUNTER
MC4324	DIP14	VCM	DUAL VOLTAGE-CONTROLLER MULTIVIBRATOR
MC4344	DIP14	PFD	PHASE-FREQUENCY DETECTOR
MC4558	TO-99:DIP8	OPAMP2	DUAL WIDE BANDWIDTH OPERATIONAL AMPLIFIER
MC4558ACP	DIP8	OPAMP2	DUAL WIDE BANDWIDTH OPERATIONAL AMPLIFIER
MC4558C	TO-99:SO8NB:DIP8	OPAMP2	DUAL WIDE BANDWIDTH OPERATIONAL AMPLIFIER
MC4741C	DIP14:SO14NB	OPAMP2	QUAD OPERATIONAL AMPLIFIER
MC4741L	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
MC54HC00A	DIP14:SO14NB	NAND2:NANDDM	QUAD 2-INPUT NAND GATE
MC54HC02A	DIP14:SO14NB	NOR2:NORDM	QUAD 2-INPUT NOR GATE

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC54HC03	DIP14:SO14NB	HC03	QUAD 2-INPUT NAND GATE WITH OPEN DRAIN OUTPUT
MC54HC04	DIP14:SO14NB	INV	HEX INVERTER
MC54HC04A	DIP14:SO14NB	INV	HEX INVERTER
MC54HC08A	DIP14:SO14NB	AND2	QUAD 2-INPUT AND GATE
MC54HC10	DIP14:SO14NB	NAND3	TRIPLE 3-INPUT NAND GATE
MC54HC107	DIP14	HC73	DUAL J-K FLIP-FLOP WITH RESET
MC54HC109	DIP16:SO16NB	HC109	DUAL J-K FLIP FLOP WITH SET AND RESET
MC54HC11	DIP14:SO14NB	AND3	TRIPLE 3-INPUT AND GATE
MC54HC113	DIP14	HC73	DUAL J-K FLIP-FLOP WITH SET
MC54HC125A	DIP14:SO14NB	HC125	QUAD 3-STATE BUFFER
MC54HC126A	DIP14:SO14NB	HC126	QUAD 3-STATE BUFFER
MC54HC132A	DIP14:SO14NB	NANDST	QUAD 2-INPUT NAND GATE WITH SCHMITT TRIGGER
MC54HC133	DIP16:SO16NB	NAND13	13-INPUT NAND GATE
MC54HC137	DIP16:SO16NB	HC137	1-OF-8 DECODER/DEMULTIPLEXER
MC54HC138A	DIP16:SO16NB	HC138	1-OF-8 DECODER/DEMULTIPLEXER
MC54HC139A	DIP16:SO16NB	HC139	DUAL 1-OF-4 DECODER/DEMULTIPLEXER
MC54HC147	DIP16:SO16NB	HC147	DECIMAL TO BCD ENCODER
MC54HC14A	DIP14:SO14NB	INVST	HEX SCHMITT TRIGGER INVERTER
MC54HC153	DIP16:SO16NB	153	DUAL 4-INPUT DATA SELECTOR/MULTIPLEXER
MC54HC154	DIP24-300	HC154	1-OF-16 DECODER/DEMULTIPLEXER
MC54HC157A	DIP16:SO16NB	157	QUAD 2-INPUT DATA SELECTOR/MULTIPLEXER
MC54HC158	DIP16:SO16NB	158	QUAD 2-INPUT DATA SELECTOR/MULTIPLEXER
MC54HC160	DIP16:SO16NB	160	PRESETTABLE COUNTER
MC54HC161	DIP16:SO16NB	160	PRESETTABLE COUNTER
MC54HC162	DIP16:SO16NB	160	PRESETTABLE COUNTER
MC54HC163	DIP16:SO16NB	160	PRESETTABLE COUNTER

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC54HC164	DIP14	HC164	8-BIT SERIAL-IN/PARALLEL-OUT SHIFT REGISTER
MC54HC165	DIP16	HC165	8-BIT SERIAL OR PARALLEL-INPUT/SERIAL OUT SHIFT REGISTER
MC54HC173	DIP16:SO16NB	HC173	QUAD 3-STATE D FLIP-FLOP
MC54HC174	DIP16:SO16NB	174	HEX D FLIP-FLOP
MC54HC175	DIP16:SO16NB	HC175	QUAD D FLIP-FLOP
MC54HC194	DIP16	194	4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER
MC54HC195	DIP16	HC195	4-BIT UNIVERSAL SHIFT REG.
MC54HC20	DIP14:SO14NB	NAND4	DUAL 4-INPUT NAND GATE
MC54HC237	DIP16:SO16NB	HC237	1-OF-8 DECODER/DEMULTIPLEXER
MC54HC240A	DIP20:SO20WB	240	OCTAL 3-STATE INVERTING BUFFER
MC54HC241A	DIP20:SO20WB	241	OCTAL 3-STATE NON-INVERTING BUFFER
MC54HC242	DIP14	HC242	QUAD 3-STATE BUS TRANSCEIVER
MC54HC244A	DIP20:SO20WB	244	OCTAL 3-STATE NONINVERTING BUFFER/DRIVER/RCVR
MC54HC245A	DIP20:SO20WB	573	OCTAL 3-STATE NONINVERTING TRANSCEIVER
MC54HC251	DIP16:SO16NB	151	8-INPUT DATA SELECTOR/MULTIPLEXER
MC54HC253	DIP16:SO16NB	153	DUAL 4-INPUT DATA SELECTOR/MULTIPLEXER
MC54HC257	DIP16:SO16NB	157	QUAD 2-INPUT DATA SELECTOR/MULTIPLEXER, 3-STATE OUT
MC54HC259	DIP16:SO16NB	259	8-BIT ADDRESSABLE LATCH, 1-OF-8 DECODER
MC54HC27	DIP14:SO14NB	NOR3	TRIPLE 3-INPUT NOR GATE
MC54HC273	DIP20:SO20WB	574	OCTAL D FLIP-FLOP WITH COMMON CLK AND RST
MC54HC280	DIP14:SO14NB	280	9-BIT ODD/EVEN PARITY GENERATOR CHECKER
MC54HC299	DIP20:SO20WB	299	8-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER
MC54HC30	DIP14:SO14NB	NAND8	8-INPUT NAND GATE
MC54HC32A	DIP14:SO14NB	OR2	QUAD 2-INPUT OR GATE

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC54HC354	DIP20:SO20WB	354	8-INPUT DATA SELECTOR/MULTIPLEXER
MC54HC365	DIP16	365	HEX 3-STATE NON-INVERTING BUFFER
MC54HC366	DIP16	366	HEX 3-STATE INVERTING BUFFER
MC54HC367	DIP16	367A:367B	HEX 3-STATE NON-INVERTING BUFFER
MC54HC368	DIP16	368A:368B	HEX 3-STATE INVERTING BUFFER
MC54HC373	DIP20:SO20WB	373	OCTAL 3-STATE NON-INVERTING TRANSPARENT LATCH
MC54HC374	DIP20:SO20WB	374	OCTAL 3-STATE NON-INVERTING D FLIP-FLOP
MC54HC386	DIP14:SO14NB	XOR	QUAD 2-INPUT XOR GATE
MC54HC390	DIP16	390	DUAL 4-BIT BINARY RIPPLE COUNTER WITH /2 & /5 SECTIONS
MC54HC393	DIP14	393	DUAL 4-STAGE BINARY RIPPLE COUNTER
MC54HC4002	DIP14:SO14NB	NOR4	DUAL 4-INPUT NOR GATE
MC54HC4016	DIP14:SO14NB	ANLSW	QUAD ANALOG SWITCH/QUAD MULTIPLEXER
MC54HC4017	DIP16:SO16NB	14017	DECADE COUNTER
MC54HC4020	DIP16	14020	14-BIT BINARY COUNTER
MC54HC4024	DIP14:SO14NB	14024	7-STAGE RIPPLE COUNTER
MC54HC4040	DIP16	14040	12-BIT BINARY COUNTER
MC54HC4049	DIP16:SO16NB	INV	HEX BUFFER
MC54HC4050	DIP16:SO16NB	INVNON	HEX BUFFER
MC54HC4051	DIP16:SO16WB	14051	ANALOG MULTIPLEXER/DEMULTIPLEXER
MC54HC4052	DIP16:SO16WB	14052	ANALOG MULTIPLEXER/DEMULTIPLEXER
MC54HC4053	DIP16:SO16WB	14053	ANALOG MULTIPLEXER/DEMULTIPLEXER
MC54HC4060	DIP16	14060	14-BIT BINARY COUNTER AND OSCILLATOR
MC54HC4066	DIP14:SO14NB	ANLSW	QUAD ANALOG SWITCH/QUAD MULTIPLEXER
MC54HC4075	DIP14:SO14NB	OR3	TRIPLE 3-INPUT OR GATE
MC54HC4078	DIP14:SO14NB	OR/NOR8	8-INPUT OR/NOR GATE
MC54HC42	DIP16:SO16NB	HC42	1-OF-TEN DECODER
MC54HC4316	DIP16:SO16NB	4316	QUAD ANALOG SWITCH/MUX/DEMUX WITH ANL&DIG PWR SUPPLIES

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC54HC4351	DIP20:SO20WB	4351	ANALOG MUX/DEMUX WITH ADDRESS LATCH
MC54HC4352	DIP20:SO20WB	4352	ANALOG MUX/DEMUX WITH ADDRESS LATCH
MC54HC4353	DIP20:SO20WB	4353	ANALOG MUX/DEMUX WITH ADDRESS LATCH
MC54HC4511	DIP16:SO16NB	14511	BCD TO 7 SEGMENT LATCH/DECODER/DRIVER
MC54HC4514	DIP24-600	14514	4-BIT TRANSPARENT LATCH/4 TO 16 LINE DECODER
MC54HC4538	DIP16	14538	DUAL PRECISION MONOSTABLE MULTIVIBRATOR
MC54HC533	DIP20:SO20WB	533	OCTAL 3-STATE INVERTING TRANSPARENT LATCH
MC54HC534	DIP20:SO20WB	534	OCTAL 3-STATE INVERTING D FLIP-FLOP
MC54HC540	DIP20:SO20WB	540	OCTAL 3-STATE INVERTING BUFFER/DRIVER/RECEIVER
MC54HC541	DIP20:SO20WB	541	OCTAL 3-STATE NON-INVERTING BUFFER/DRIVER/RECEIVER
MC54HC563	DIP20:SO20WB	563	OCTAL 3-STATE INVERTING TRANSPARENT LATCH
MC54HC564	DIP20:SO20WB	564	OCTAL 3-STATE INVERTING D FLIP-FLOP
MC54HC573	DIP20:SO20WB	573	OCTAL 3-STATE NON-INVERTING TRANSPARENT LATCH
MC54HC574	DIP20:SO20WB	574	OCTAL 3-STATE NON-INVERTING D FLIP-FLOP
MC54HC58	DIP14:SO14NB	HC58A:HC58B	2-WIDE, 2-INPUT/2-WIDE, 3-INPUT AND-OR GATES
MC54HC589	DIP16:SO16NB	589	8-BIT SERIAL/PARALLEL SHIFT REGISTER
MC54HC595A	DIP16:SO16NB	595	8-BIT SERIAL/PARALLEL SHIFT REGISTER
MC54HC597	DIP16:SO16NB	597	8-BIT SERIAL/PARALLEL SHIFT REGISTER
MC54HC640	DIP20:SO20WB	640	OCTAL 3-STATE INVERTING BUS TRANSCEIVER
MC54HC646	DIP24-300	646	OCTAL 3-STATE BUS TRANSCEIVER AND D FLIP-FLOP



**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC54HC648	DIP24-300	648	OCTAL 3-STATE BUS TRANSCEIVER AND D FLIP-FLOP
MC54HC688	DIP20:SO20WB	688	8-BIT EQUALITY COMPARATOR
MC54HC7266	DIP14:SO14NB	XNOR	QUAD 2-INPUT XOR GATE
MC54HC73	DIP14	HC73	DUAL J-K FLIP-FLOP WITH RESET
MC54HC74A	DIP14:SO14NB	HC74	DUAL D FLIP-FLOP WITH SET AND RESET
MC54HC75	DIP16:SO16NB	HC75	DUAL 2-BIT TRANSPARENT LATCH
MC54HC76	DIP16:SO16NB	HC76	DUAL J-K FLIP FLOP WITH SET AND RESET
MC54HC85	DIP16	HC85	4-BIT MAGNITUDE COMPARATOR
MC54HC86	DIP14:SO14NB	XOR	QUAD 2-INPUT XOR GATE
MC54HCT04A	DIP14:SO14NB	INV	HEX INVERTER WITH LSTTL-COMPATIBLE INPUTS
MC54HCT240A	DIP20:SO20WB	240	OCTAL 3-STATE INVERTING BUFFER WITH LSTTL INPUTS
MC54HCT241A	DIP20:SO20WB	241	OCTAL 3-STATE NON-INVERTING BUFFER WITH LSTTL INPUTS
MC54HCT244A	DIP20:SO20WB	244	OCTAL 3-STATE NONINVERTING BUFFER/DRIVER/RCVR (LSTTL)
MC54HCT245A	DIP20:SO20WB	573	OCTAL 3-STATE NONINVERTING TRANSCEIVER
MC54HCT373A	DIP20:SO20WB	373	OCTAL 3-STATE NON-INVERTING TRANSPARENT LATCH (LSTTL)
MC54HCT374A	DIP20:SO20WB	374	OCTAL 3-STATE NON-INVERTING D FLIP-FLOP
MC54HCT533	DIP20:SO20WB	533	OCTAL 3-STATE INVERTING TRANSPARENT LATCH
MC54HCT534	DIP20:SO20WB	534	OCTAL 3-STATE INVERTING D FLIP-FLOP
MC54HCT540	DIP20:SO20WB	540	OCTAL 3-STATE INVERTING BUFFER/DRIVER/RECEIVER
MC54HCT541	DIP20:SO20WB	541	OCTAL 3-STATE NON-INVERTING BUFFER/DRIVER/RECEIVER
MC54HCT640	DIP20:SO20WB	640	OCTAL 3-STATE INVERTING BUS TRANSCEIVER
MC54HCU04	DIP14:SO14NB	INV	HEX UNBUFFERED INVERTER



**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC6172	DIP24-600	24PIN	2400 BPS MODULATOR
MC6173	DIP24-600	24PIN	2400 BPS MODULATOR
MC6800	DIP40-600	6800	8-BIT MICROPROCESSING UNIT (MPU)
MC68000	DIP64-900	68000	16-/32-BIT MICROPROCESSOR
MC68000AFN	LCC68SQ	68000	16-/32-BIT MICROPROCESSOR
MC68000PGA	PGA-68PA	68000	16-/32-BIT MICROPROCESSOR
MC6801	DIP40-600	6801	MICROCONTROLLER/MICROPROCESSOR (MCU/MPU)
MC68010	DIP64-900	68000	16-BIT VIRTUAL MEMORY MICROPROCESSOR
MC68010AFN	LCC68SQ	68000	16-BIT VIRTUAL MEMORY MICROPROCESSOR
MC68010PGA	PGA-68PA	68000	16-BIT VIRTUAL MEMORY MICROPROCESSOR
MC6801U4	DIP40-600	DIP38	MICROCOMPUTER/MICROPROCESSOR (MCU/MPU)
MC6802	DIP40-600	6802	MICROPROCESSOR WITH CLOCK AND OPTIONAL RAM
MC6803	DIP40-600	DIP38	MICROCOMPUTER/MICROPROCESSOR (MCU/MPU)
MC6803E	DIP40-600	DIP38	8-BIT MICROPROCESSOR
MC6803U4	DIP40-600	6801	MICROCONTROLLER/MICROPROCESSOR (MCU/MPU)
MC6804J1	DIP20	6804	8-BIT MICROCOMPUTING UNIT
MC6804J2	DIP20	6804	8-BIT MICROCOMPUTING UNIT
MC6804P2	DIP28-600:PLCC28SQ	68704	8-BIT MICROCONTROLLER UNIT
MC6805P2	DIP28-600:PLCC28SQ	68704	8-BIT MICROCONTROLLER UNIT
MC6805P6	DIP28-600:PLCC28SQ	68704	8-BIT MICROCONTROLLER UNIT
MC6805R2	DIP40-600	6805	8-BIT MICROCONTROLLER UNIT
MC6805R2FN	PLCC44	6805	8-BIT MICROCONTROLLER UNIT
MC6805R3	DIP40-600	6805	8-BIT MICROCONTROLLER UNIT
MC6805R3FN	PLCC44	6805	8-BIT MICROCONTROLLER UNIT

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC6805S2	DIP28-600	6805S	8-BIT MICROCONTROLLER UNIT
MC6805S3	DIP28-600	6805S	8-BIT MICROCONTROLLER UNIT
MC6805U2	DIP40-600	6805	8-BIT MICROCONTROLLER UNIT
MC6805U2FN	PLCC44	6805	8-BIT MICROCONTROLLER UNIT
MC6805U3	DIP40-600	6805	8-BIT MICROCONTROLLER UNIT
MC6805U3FN	PLCC44	6805	8-BIT MICROCONTROLLER UNIT
MC6809	DIP40-600	6809	8-BIT MICROPROCESSING UNIT (MPU)
MC6809E	DIP40-600	6809E	8-BIT MICROPROCESSOR UNIT
MC68120	DIP48-600	DIP46	INTELLIGENT PERIPHERAL CONTROLLER
MC68121	DIP48-600	DIP46	INTELLIGENT PERIPHERAL CONTROLLER
MC68154	DIP40-600	68154	INTERRUPT GENERATOR
MC68154AFN	LCC44SQ	68154	INTERRUPT GENERATOR
MC68154FN	LCC44SQ	68154	INTERRUPT GENERATOR
MC68155	DIP40-600	68155	INTERRUPT HANDLER
MC68155AFN	LCC44SQ	68155	INTERRUPT HANDLER PLCC VERSION
MC68155FN	LCC44SQ	68155	INTERRUPT HANDLER
MC68171	DIP16	68171	VERY LITTLE SERIAL INTERFACE CHIP (VLSIC)
MC68172	DIP28-600	68172	VMEBUS CONTROLLER (BUSCON)
MC68172AFN	LCC44SQ	68172	VMEBUS CONTROLLER (BUSCON)
MC68172FN	LCC44SQ	68172	VMEBUS CONTROLLER (BUSCON)
MC68173	DIP28-600	68173	VMSBUS CONTROLLER (VMSCON)
MC6821	DIP40-600	6821	PERIPHERAL INTERFACE ADAPTER (PIA)
MC6822	DIP40-600	DIP38	INDUSTRIAL INTERFACE ADAPTER (IIA)
MC6829	DIP40-600	DIP38	MEMORY MANAGEMENT UNIT (MMU)
MC6835	DIP40-600	DIP38	CRT CONTROLLER (CRTC)
MC6839	DIP24-600	6839	FLOATING-POINT ROM
MC6840	DIP28-600	6840	PROGRAMMABLE TIMER MODULE (PTM)
MC68430	DIP48-600	68430	DIRECT MEMORY ACCESS INTERFACE (DMA)
MC68430AFN	LCC52SQ	68430	DIRECT MEMORY ACCESS INTERFACE (DMA)

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC68430FN	LCC52SQ	68430	DIRECT MEMORY ACCESS INTERFACE (DMA)
MC6844	DIP40-600	6844	DIRECT MEMORY ACCESS CONTROLLER (DMAC)
MC6845	DIP40-600	6845	CRT CONTROLLER (CRTC)
MC6846	DIP40-600	6846	ROM-I/O-TIMER
MC6847	DIP40-600	6847	NON-INTERLACE VIDEO DISPLAY GENERATOR (VDG)
MC6847Y	DIP40-600	6847	NON-INTERLACE VIDEO DISPLAY GENERATOR (VDG)
MC68488	DIP40-600	68488	GENERAL PURPOSE INTERFACE ADAPTER
MC6850	DIP24-600	6850	ASYNCHRONOUS COMMUNICATIONS INTERFACE ADAPTER
MC6852	DIP24-600	6852	SYNCHRONOUS SERIAL DATA ADAPTER (SSDA)
MC6854	DIP28-600	6854	ADVANCED DATA-LINK CONTROLLER (ADLC)
MC68562	DIP48-600	68562	DUAL UNIVERSAL SERIAL COMMUNICATIONS CONTROLLER
MC68562AFN	LCC52SQ	68562	DUAL UNIVERSAL SERIAL COMMUNICATIONS CONTROLLER
MC6859	DIP24-600	DIP22	DATA SECURITY DEVICE
MC6860	DIP24-600	24PIN	0-600 BPS DIGITAL MODEM
MC68661	DIP28-600	2661	ENHANCED PROGRAMMABLE COMMUNICATIONS INTERFACE (EPCI)
MC68661FN	LCC28SQ	2661	ENHANCED PROGRAMMABLE COMMUNICATIONS INTERFACE (EPCI)
MC68681	DIP40-600	2681N40	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART)
MC68681AFN	LCC44SQ	2681N40	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART)
MC68681FN	LCC44SQ	2681N40	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART)
MC68692	DIP40-600	2681N40	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART)
MC68692AFN	LCC44SQ	2681N40	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART)

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC68692FN	LCC44SQ	2681N40	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART)
MC68701	DIP40-600	6801	MICROCONTROLLER/MICROPROCESSOR (MCU/MPU)
MC68701U4	DIP40-600	6801	MICROCONTROLLER/MICROPROCESSOR (MCU/MPU)
MC68704P2	DIP28-600	68704	8-BIT MICROCONTROLLER UNIT
MC68705P3	DIP28-600	68704	8-BIT EPROM MICROCONTROLLER UNIT
MC68705P5	DIP28-600	68704	8-BIT EPROM MICROCONTROLLER UNIT
MC68705R3	DIP40-600	6805	8-BIT EPROM MICROCONTROLLER UNIT
MC68705R3FN	PLCC44	6805	8-BIT EPROM MICROCONTROLLER UNIT
MC68705R5	DIP40-600	6805	8-BIT EPROM MICROCONTROLLER UNIT
MC68705R5FN	PLCC44	6805	8-BIT EPROM MICROCONTROLLER UNIT
MC68705S3	DIP28-600	6805S	8-BIT EPROM MICROCONTROLLER UNIT
MC68705U3	DIP40-600	6805	8-BIT EPROM MICROCONTROLLER UNIT
MC68705U5	DIP40-600	6805	8-BIT EPROM MICROCONTROLLER UNIT
MC6875	DIP16	6875	M6800 TWO-PHASE CLOCK GENERATOR/DRIVER
MC6875A	DIP16	6875	M6800 TWO-PHASE CLOCK GENERATOR/DRIVER
MC6880A	DIP16	8T26	QUAD THREE-STATE BUS TRANSCEIVER (INVERTING)
MC6882A	DIP20	DIP20	OCTAL THREE-STATE BUFFER/LATCH
MC6882B	DIP20	DIP20	OCTAL THREE-STATE BUFFER/LATCH
MC6883	DIP40-600	6883	SYNCHRONOUS ADDRESS MULTIPLEXER
MC6885	DIP16	8T95A:AND1-E	HEX THREE-STATE BUFFER
MC6886	DIP16	8T96A:NAND1-E	HEX THREE-STATE INVERTER
MC6887	DIP16	8T97A-4:8T97A-2:AND1-E	HEX THREE-STATE BUFFER
MC6888	DIP16	8T98A-4:8T98A-2:NAND1-E	HEX THREE-STATE INVERTER
MC6889	DIP16	8T28	QUAD THREE-STATE BUS TRANSCEIVER
MC6890	DIP20	6890	8-BIT MPU-BUS-COMPATIBLE DAC
MC6898FN	PLCC52	6898	CABLE DRIVER/RECEIVER

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC68HC04J2	DIP20	6804	8-BIT MICROCOMPUTING UNIT
MC68HC04J3	DIP20	6804	8-BIT MICROCOMPUTING UNIT
MC68HC04P2	DIP28-600	68HC04	8-BIT HCMOS MICROCOMPUTER
MC68HC04P3	DIP28-600	68HC04	8-BIT HCMOS MICROCOMPUTER
MC68HC05B4FN	PLCC52	68HC05FN	8-BIT MICROCONTROLLER UNIT
MC68HC05B4P	DIP48-600	68HC05	8-BIT MICROCONTROLLER UNIT
MC68HC05B6FN	PLCC52	68HC05FN	8-BIT EPROM PROGRAMMABLE MICROCONTROLLER UNIT
MC68HC05B6P	DIP48-600	68HC05	8-BIT EPROM PROGRAMMABLE MICROCONTROLLER UNIT
MC68HC05C2FN	PLCC44	68HC05C	8-BIT MICROCONTROLLER UNIT
MC68HC05C2P	DIP40-600	68HC05C	8-BIT MICROCONTROLLER UNIT
MC68HC05C3FN	PLCC44	68HC05C	8-BIT MICROCONTROLLER UNIT
MC68HC05C3P	DIP40-600	68HC05C	8-BIT MICROCONTROLLER UNIT
MC68HC05C4FN	PLCC44	68HC05C	8-BIT MICROCONTROLLER UNIT
MC68HC05C4P	DIP40-600	68HC05C	8-BIT MICROCONTROLLER UNIT
MC68HC05C8FN	PLCC44	68HC05C	8-BIT MICROCONTROLLER UNIT
MC68HC05C8P	DIP40-600	68HC05C	8-BIT MICROCONTROLLER UNIT
MC68HC09E	DIP40-600	68HC09	8-BIT HCMOS MICROPROCESSING UNIT
MC68HC11A0FN	PLCC52	68HC11F	8-BIT MICROCONTROLLER UNIT
MC68HC11A0P	DIP48-600	68HC11	8-BIT MICROCONTROLLER UNIT
MC68HC11A1FN	PLCC52	68HC11F	8-BIT MICROCONTROLLER UNIT
MC68HC11A1P	DIP48-600	68HC11	8-BIT MICROCONTROLLER UNIT
MC68HC11A8FN	PLCC52	68HC11F	8-BIT MICROCONTROLLER UNIT
MC68HC11A8P	DIP48-600	68HC11	8-BIT MICROCONTROLLER UNIT
MC68HC11E9FN	PLCC52	68HC11F	8-BIT MICROCONTROLLER UNIT
MC68HC24FN	PLCC44	68HC24	PORT REPLACEMENT UNIT (PRU)
MC68HC24P	DIP40-600	68HC24	PORT REPLACEMENT UNIT (PRU)
MC68HC34	DIP40-600	68HC34	DUAL-PORT RAM MEMORY UNIT
MC68HC51	DIP28-600	68HC51	ASYNCHRONOUS COMMUNICATIONS INTERFACE ADAPTER (ACIA)

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC68HC68A1	DIP16	68HC68	SERIAL 10-BIT ANALOG-TO-DIGITAL CONVERTER
MC68HC68R1	DIP8	68HC68R1	8-BIT SERIAL STATIC RAMS
MC68HC68R2	DIP8	68HC68R1	8-BIT SERIAL STATIC RAMS
MC68HC705C8FN	PLCC44	68HC05C	8-BIT MICROCONTROLLER UNIT
MC68HC705C8P	DIP40-600	68HC05C	8-BIT MICROCONTROLLER UNIT
MC68HC805B6FN	PLCC52	68HC05FN	8-BIT EPROM PROGRAMMABLE MICROCONTROLLER UNIT
MC68HC811E2FN	PLCC52	68HC11F	8-BIT MICROCONTROLLER UNIT
MC68HC99FN	PLCC52	68HC99	HARD DISK CONTROLLER
MC68HCL05C4FN	PLCC44	68HC05C	8-BIT LOW-POWER MICROCONTROLLER UNIT
MC68HCL05C4P	DIP40-600	68HC05C	8-BIT LOW-POWER MICROCONTROLLER UNIT
MC68HCL05C8FN	PLCC44	68HC05C	8-BIT LOW-POWER MICROCONTROLLER UNIT
MC68HCL05C8P	DIP40-600	68HC05C	8-BIT LOW-POWER MICROCONTROLLER UNIT
MC68HSC05C4FN	PLCC44	68HC05C	8-BIT HIGH-PERF. LOW-POWER MICROCONTROLLER UNIT
MC68HSC05C4P	DIP40-600	68HC05C	8-BIT HIGH-PERF. LOW-POWER MICROCONTROLLER UNIT
MC68HSC05C8FN	PLCC44	68HC05C	8-BIT HIGH-PERF. LOW-POWER MICROCONTROLLER UNIT
MC68HSC05C8P	DIP40-600	68HC05C	8-BIT HIGH-PERF. LOW-POWER MICROCONTROLLER UNIT
MC74AC00	DIP14:SO14NB	NAND2:NANDDM	QUAD 2-INPUT POS-NAND GATE
MC74AC02	DIP14:SO14NB	NOR2:NORDM	QUAD 2-INPUT POS-NOR GATE
MC74AC04	DIP14:SO14NB	INV	HEX INVERTER
MC74AC08	DIP14:SO14NB	AND2	QUAD 2-INPUT POS-AND GATE
MC74AC10	DIP14:SO14NB	NAND3	TRIPLE 3-INPUT POS-NAND GATE
MC74AC109	DIP16:SO16NB	109	DUAL J-K POSITIVE-EDGE-TRIGGERED FLIP-FLOP

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC74AC11	DIP14:SO14NB	AND3	TRIPLE 3-INPUT POS-AND GATE
MC74AC132	DIP14:SO14NB	NANDST	QUADRUPLE 2-INPUT POSITIVE-NAND SCHMITT TRIGGER
MC74AC138	DIP16:SO16NB	138	3-TO-8 LINE DECODER/DEMULTIPLEXER
MC74AC139	DIP16:SO16NB	139	DUAL 1-OF-4 DECODER/DEMULTIPLEXER
MC74AC14	DIP14:SO14NB	INVST	HEX SCHMITT-TRIGGER INV
MC74AC151	DIP16:SO16NB	151	1-OF-8 DECODER/DEMULTIPLEXER
MC74AC153	DIP16:SO16NB	153	DUAL 4-INPUT MULTIPLEXER
MC74AC157	DIP16:SO16NB	157	QUAD 2-INPUT MULTIPLEXER
MC74AC158	DIP16:SO16NB	158	QUAD 2-INPUT MULTIPLEXER, INVERTED OUTPUTS
MC74AC160	DIP16:SO16NB	160	SYNCHRONOUS PRESETTABLE 4 BIT DECAD COUNTER
MC74AC161	DIP16:SO16NB	160	SYNCHRONOUS PRESETTABLE 4 BIT BINAR COUNTER
MC74AC162	DIP16:SO16NB	160	SYNCHRONOUS PRESETTABLE 4 BIT DECAD COUNTER
MC74AC163	DIP16:SO16NB	160	SYNCHRONOUS PRESETTABLE 4 BIT BINAR COUNTER
MC74AC174	DIP16:SO16NB	174	HEX D FLIP-FLOP WITH MASTER RESET
MC74AC190	DIP16:SO16NB	190	UP/DOWN COUNTER WITH PRESET AND RIPPLE CLOCK
MC74AC194	DIP16:SO16NB	194	4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER
MC74AC240	DIP20:SO20WB	240	OCTAL BUFFER/LINE DRIVER WITH 3 STATE OUTPUTS
MC74AC241	DIP20:SO20WB	241	OCTAL BUFFER/LINE DRIVER WITH 3 STATE OUTPUTS
MC74AC244	DIP20:SO20WB	244	OCTAL BUFFER/LINE DRIVER 3 STATE OUTPUTS
MC74AC245	DIP20:SO20WB	573	OCTAL BUS TRANSCEIVER 3 STATE INPUTS/OUTPUTS
MC74AC251	DIP16:SO16NB	151	8 INPUT MULTIPLEXER WITH 3 STATE OUTPUTS



**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC74AC253	DIP16:SO16NB	153	DUAL 4-INPUT MULTIPLEXER WITH 3 STATE OUTPUTS
MC74AC256	DIP16:SO16NB	256	DUAL 4-BIT ADDRESSABLE LATCH
MC74AC257	DIP16:SO16NB	157	QUAD 2-INPUT MULTIPLEXER WITH 3 STATE OUTPUTS
MC74AC258	DIP16:SO16NB	158	QUAD 2-INPUT MULTIPLEXER, INVERTED OUTPUTS
MC74AC259	DIP16:SO16NB	259	8-BIT ADDRESSABLE LATCH
MC74AC273	DIP20:SO20WB	574	OCTAL D-TYPE FLIP-FLOP
MC74AC299	DIP20:SO20WB	299	8-BIT UNIVERSAL SHIFT/STORAGE REGISTER WITH COMMON I/O
MC74AC32	DIP14:SO14NB	OR2	QUAD 2-INPUT POS-OR GATE
MC74AC323	DIP20:SO20WB	299	8-BIT UNIVERSAL SHIFT/STORAGE REGISTER WITH SYNC RST
MC74AC350	DIP16:SO16NB	350	4-BIT SHIFTER WITH 3 STATE OUTPUTS
MC74AC352	DIP16:SO16NB	352	DUAL 4-INPUT MULTIPLEXER
MC74AC353	DIP16:SO16NB	352	DUAL 4-INPUT MULTIPLEXER WITH 3 STATE OUTPUTS
MC74AC373	DIP20:SO20WB	573	OCTAL TRANSPARENT LATCH WITH 3 STATE OUTPUTS
MC74AC374	DIP20:SO20WB	574	OCTAL D-TYPE FLIP-FLOP WITH 3 STATE OUTPUTS
MC74AC377	DIP20:SO20WB	574	OCTAL D-TYPE FLIP-FLOP WITH CLOCK ENABLE
MC74AC378	DIP16:SO16NB	174	PARALLEL D REGISTER WITH ENABLE
MC74AC4020	DIP16:SO16NB	4020	14-STAGE BINARY RIPPLE COUNTER
MC74AC4040	DIP16:SO16NB	4020	12-STAGE BINARY RIPPLE COUNTER
MC74AC521	DIP20:SO20WB	521	8-BIT IDENTITY COMPARATOR
MC74AC533	DIP20:SO20WB	533	OCTAL TRANSPARENT LATCH WITH 3 STATE OUTPUTS
MC74AC534	DIP20:SO20WB	533	OCTAL D-TYPE FLIP-FLOP WITH 3 STATE OUTPUTS
MC74AC540	DIP20:SO20WB	540	OCTAL BUFFER/LINE DRIVER WITH 3 STATE OUTPUTS



**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC74AC541	DIP20:SO20WB	541	OCTAL BUFFER/LINE DRIVER WITH 3 STATE OUTPUTS
MC74AC563	DIP20:SO20WB	563	OCTAL D-TYPE LATCH WITH 3 STATE OUTPUTS
MC74AC564	DIP20:SO20WB	563	OCTAL D-TYPE LATCH WITH 3 STATE OUTPUTS
MC74AC568	DIP20:SO20WB	568	4-BIT BIDIRECTIONAL DECADE COUNTER WITH 3 STATE OUTPUTS
MC74AC569	DIP20:SO20WB	568	4-BIT BIDIRECTIONAL BINARY COUNTER WITH 3 STATE OUTPUTS
MC74AC573	DIP20:SO20WB	573	OCTAL D-TYPE LATCH WITH 3 STATE OUTPUTS
MC74AC574	DIP20:SO20WB	573	OCTAL D-TYPE FLIP-FLOP WITH 3 STATE OUTPUTS
MC74AC620	DIP20:SO20WB	620	OCTAL BUS TRANSCEIVER 3 STATE INVERTING OUTPUTS
MC74AC623	DIP20:SO20WB	623	OCTAL BUS TRANSCEIVER 3 STATE OUTPUTS
MC74AC640	DIP20:SO20WB	640	OCTAL BUS TRANSCEIVER 3 STATE INVERTING OUTPUTS
MC74AC643	DIP20:SO20WB	643	OCTAL BUS TRANSCEIVER 3 STATE OUTPUTS
MC74AC646	DIP24-300	646	OCTAL BUS TRANSCEIVER/REGISTER WITH 3 STATE OUTPUTS
MC74AC648	DIP24-300	648	OCTAL BUS TRANSCEIVER/REGISTER WITH 3 STATE OUTPUTS
MC74AC74	DIP14:SO14NB	74	DUAL D-TYPE POSITIVE-EDGE TRIGGERED FLIP FLOP
MC74AC810	DIP14:SO14NB	XNOR	QUAD 2-INPUT XNOR GATE
MC74AC825	DIP24-300	825	8-BIT D-TYPE FLIP FLOP
MC74AC843	DIP24-300	843	9-BIT TRANSPARENT LATCH
MC74AC845	DIP24-300	845	8-BIT TRANSPARENT LATCH
MC74AC86	DIP14:SO14NB	XOR	QUADRUPLE 2-INPUT EXCLUSIVE-OR GATE
MC74ACT00	DIP14:SO14NB	NAND2:NANDDM	QUAD 2-INPUT POS-NAND GATE
MC74ACT02	DIP14:SO14NB	NOR2:NORDM	QUAD 2-INPUT POS-NOR GATE
MC74ACT04	DIP14:SO14NB	INV	HEX INVERTER

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC74ACT08	DIP14:SO14NB	AND2	QUAD 2-INPUT POS-AND GATE
MC74ACT10	DIP14:SO14NB	NAND3	TRIPLE 3-INPUT POS-NAND GATE
MC74ACT109	DIP16:SO16NB	109	DUAL J-K POSITIVE-EDGE-TRIGGERED FLIP-FLOP
MC74ACT111	DIP14:SO14NB	AND3	TRIPLE 3-INPUT POS-AND GATE
MC74ACT132	DIP14:SO14NB	NANDST	QUADRUPLE 2-INPUT POSITIVE-NAND SCHMITT TRIGGER
MC74ACT138	DIP16:SO16NB	138	3-TO-8 LINE DECODER/DEMULTIPLEXER
MC74ACT139	DIP16:SO16NB	139	DUAL 1-OF-4 DECODER/DEMULTIPLEXER
MC74ACT14	DIP14:SO14NB	INVST	HEX SCHMITT-TRIGGER INV
MC74ACT151	DIP16:SO16NB	151	1-OF-8 DECODER/DEMULTIPLEXER
MC74ACT153	DIP16:SO16NB	153	DUAL 4-INPUT MULTIPLEXER
MC74ACT157	DIP16:SO16NB	157	QUAD 2-INPUT MULTIPLEXER
MC74ACT158	DIP16:SO16NB	158	QUAD 2-INPUT MULTIPLEXER, INVERTED OUTPUTS
MC74ACT160	DIP16:SO16NB	160	SYNCHRONOUS PRESETTABLE 4 BIT DECAD COUNTER
MC74ACT161	DIP16:SO16NB	160	SYNCHRONOUS PRESETTABLE 4 BIT BINAR COUNTER
MC74ACT162	DIP16:SO16NB	160	SYNCHRONOUS PRESETTABLE 4 BIT DECAD COUNTER
MC74ACT163	DIP16:SO16NB	160	SYNCHRONOUS PRESETTABLE 4 BIT BINAR COUNTER
MC74ACT174	DIP16:SO16NB	174	HEX D FLIP-FLOP WITH MASTER RESET
MC74ACT194	DIP16:SO16NB	194	4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER
MC74ACT240	DIP20:SO20WB	240	OCTAL BUFFER/LINE DRIVER WITH 3 STATE OUTPUTS
MC74ACT241	DIP20:SO20WB	241	OCTAL BUFFER/LINE DRIVER WITH 3 STATE OUTPUTS
MC74ACT244	DIP20:SO20WB	244	OCTAL BUFFER/LINE DRIVER 3 STATE OUTPUTS
MC74ACT245	DIP20:SO20WB	573	OCTAL BUS TRANSCEIVER 3 STATE INPUTS/OUTPUTS

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC74ACT251	DIP16:SO16NB	151	8 INPUT MULTIPLEXER WITH 3 STATE OUTPUTS
MC74ACT253	DIP16:SO16NB	153	DUAL 4-INPUT MULTIPLEXER WITH 3 STATE OUTPUTS
MC74ACT256	DIP16:SO16NB	256	DUAL 4-BIT ADDRESSABLE LATCH
MC74ACT257	DIP16:SO16NB	157	QUAD 2-INPUT MULTIPLEXER WITH 3 STATE OUTPUTS
MC74ACT258	DIP16:SO16NB	158	QUAD 2-INPUT MULTIPLEXER, INVERTED OUTPUTS
MC74ACT259	DIP16:SO16NB	259	8-BIT ADDRESSABLE LATCH
MC74ACT273	DIP20:SO20WB	574	OCTAL D-TYPE FLIP-FLOP
MC74ACT299	DIP20:SO20WB	299	8-BIT UNIVERSAL SHIFT/STORAGE REGISTER WITH COMMON I/O
MC74ACT32	DIP14:SO14NB	OR2	QUAD 2-INPUT POS-OR GATE
MC74ACT323	DIP20:SO20WB	299	8-BIT UNIVERSAL SHIFT/STORAGE REGISTER WITH SYNC RST
MC74ACT350	DIP16:SO16NB	350	4-BIT SHIFTER WITH 3 STATE OUTPUTS
MC74ACT352	DIP16:SO16NB	352	DUAL 4-INPUT MULTIPLEXER
MC74ACT353	DIP16:SO16NB	352	DUAL 4-INPUT MULTIPLEXER WITH 3 STATE OUTPUTS
MC74ACT373	DIP20:SO20WB	573	OCTAL TRANSPARENT LATCH WITH 3 STATE OUTPUTS
MC74ACT374	DIP20:SO20WB	574	OCTAL D-TYPE FLIP-FLOP WITH 3 STATE OUTPUTS
MC74ACT377	DIP20:SO20WB	574	OCTAL D-TYPE FLIP-FLOP WITH CLOCK ENABLE
MC74ACT378	DIP16:SO16NB	174	PARALLEL D REGISTER WITH ENABLE
MC74ACT521	DIP20:SO20WB	521	8-BIT IDENTITY COMPARATOR
MC74ACT533	DIP20:SO20WB	533	OCTAL TRANSPARENT LATCH WITH 3 STATE OUTPUTS
MC74ACT534	DIP20:SO20WB	533	OCTAL D-TYPE FLIP-FLOP WITH 3 STATE OUTPUTS
MC74ACT540	DIP20:SO20WB	540	OCTAL BUFFER/LINE DRIVER WITH 3 STATE OUTPUTS

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC74ACT541	DIP20:SO20WB	541	OCTAL BUFFER/LINE DRIVER WITH 3 STATE OUTPUTS
MC74ACT563	DIP20:SO20WB	563	OCTAL D-TYPE LATCH WITH 3 STATE OUTPUTS
MC74ACT564	DIP20:SO20WB	563	OCTAL D-TYPE LATCH WITH 3 STATE OUTPUTS
MC74ACT573	DIP20:SO20WB	573	OCTAL D-TYPE LATCH WITH 3 STATE OUTPUTS
MC74ACT574	DIP20:SO20WB	573	OCTAL D-TYPE FLIP-FLOP WITH 3 STATE OUTPUTS
MC74ACT620	DIP20:SO20WB	620	OCTAL BUS TRANSCEIVER 3 STATE INVERTING OUTPUTS
MC74ACT623	DIP20:SO20WB	623	OCTAL BUS TRANSCEIVER 3 STATE OUTPUTS
MC74ACT640	DIP20:SO20WB	640	OCTAL BUS TRANSCEIVER 3 STATE INVERTING OUTPUTS
MC74ACT643	DIP20:SO20WB	643	OCTAL BUS TRANSCEIVER 3 STATE OUTPUTS
MC74ACT646	DIP24-300	646	OCTAL BUS TRANSCEIVER/REGISTER WITH STATE OUTPUTS
MC74ACT648	DIP24-300	648	OCTAL BUS TRANSCEIVER/REGISTER WITH STATE OUTPUTS
MC74ACT74	DIP14:SO14NB	74	DUAL D-TYPE POSITIVE-EDGE TRIGGERED FLIP FLOP
MC74ACT810	DIP14:SO14NB	XNOR	QUAD 2-INPUT XNOR GATE
MC74ACT825	DIP24-300	825	8-BIT D-TYPE FLIP FLOP
MC74ACT843	DIP24-300	843	9-BIT TRANSPARENT LATCH
MC74ACT845	DIP24-300	845	8-BIT TRANSPARENT LATCH
MC74ACT86	DIP14:SO14NB	XOR	QUADRUPLE 2-INPUT EXCLUSIVE-OR GATE
MC74BC00	DIP14:SO14NB	NAND2:NANDDM	BICMOS QUAD 2-INPUT POS-NAND GATE
MC74BC08	DIP14:SO14NB	AND2	BICMOS QUAD 2-INPUT POS-AND GATE
MC74BC230	DIP20:SO20WB	230	BICMOS OCTAL BUFFER AND LINE DRIVER
MC74BC231	DIP20:SO20WB	231	BICMOS OCTAL BUFFER AND LINE DRIVER
MC74BC240	DIP20:SO20WB	240:240-A	BICMOS OCTAL INVERTING BUS BUFFER
MC74BC241	DIP20:SO20WB	241:241-A	BICMOS OCTAL NON-INVERTING BUS BUFFER

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC74BC243	DIP14:SO14NB	243	BICMOS OCTAL BUS TRANSCEIVER
MC74BC244	DIP20:SO20WB	244:244-A	BICMOS OCTAL NON-INVERTING BUS BUFF
MC74BC32	DIP14:SO14NB	OR2	BICMOS QUAD 2-INPUT POS-OR GATE
MC74BC365	DIP16:SO16NB	365	BICMOS HEX BUFFER/LINE DRIVER
MC74BC366	DIP16:SO16NB	366	BICMOS HEX INVERTER BUS BUFFER
MC74BC367	DIP16:SO16NB	367	BICMOS HEX NON-INVERTER BUS BUFFER
MC74BC368	DIP16:SO16NB	368	BICMOS HEX INVERTER BUS BUFFER
MC74BC373	DIP20:SO20WB	373	BICMOS OCTAL D-TYPE LATCH, NON-INVERTING
MC74BC374	DIP20:SO20WB	374	BICMOS OCTAL D-TYPE LATCH, NON-INVERTING
MC74BC533	DIP20:SO20WB	533	BICMOS OCTAL D-TYPE LATCH, INVERTING
MC74BC534	DIP20:SO20WB	534	BICMOS OCTAL D-TYPE LATCH, INVERTING
MC74BC540	DIP20:SO20WB	540	BICMOS OCTAL BUS BUFFER, INVERTING
MC74BC541	DIP20:SO20WB	541	BICMOS OCTAL BUS BUFFER
MC74BC563	DIP20:SO20WB	563	BICMOS OCTAL D-TYPE LATCH, INVERTING
MC74BC564	DIP20:SO20WB	564	BICMOS OCTAL D-TYPE LATCH, INVERTING
MC74BC573	DIP20:SO20WB	573	BICMOS OCTAL D-TYPE LATCH, NON-INVERTING
MC74BC574	DIP20:SO20WB	574	BICMOS OCTAL D-TYPE LATCH, NON-INVERTING
MC74BC575	DIP24-600:SO24WB	575	BICMOS OCTAL D-TYPE LATCH, NON-INVERTING
MC74BC620	DIP20:SO20WB	620	BICMOS OCTAL BUS TRANSCEIVER, INVERTING
MC74BC623	DIP20:SO20WB	623	BICMOS OCTAL BUS TRANSCEIVER, NON-INVERTING
MC74BC640	DIP20:SO20WB	640	BICMOS OCTAL BUS TRANSCEIVER, INVERTING
MC74BC643	DIP20:SO20WB	643	BICMOS OCTAL BUS TRANSCEIVER, INVERTING, NON-INVERTING
MC74BC645	DIP20:SO20WB	645	BICMOS OCTAL BUS TRANSCEIVER, NON-INVERTING

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC74HC00A	DIP14:SO14NB	NAND2:NANDDM	QUAD 2-INPUT NAND GATE
MC74HC02A	DIP14:SO14NB	NOR2:NORDM	QUAD 2-INPUT NOR GATE
MC74HC03	DIP14:SO14NB	HC03	QUAD 2-INPUT NAND GATE WITH OPEN DRAIN OUTPUT
MC74HC04	DIP14:SO14NB	INV	HEX INVERTER
MC74HC04A	DIP14:SO14NB	INV	HEX INVERTER
MC74HC08A	DIP14:SO14NB	AND2	QUAD 2-INPUT AND GATE
MC74HC10	DIP14:SO14NB	NAND3	TRIPLE 3-INPUT NAND GATE
MC74HC107	DIP14	HC73	DUAL J-K FLIP-FLOP WITH RESET
MC74HC109	DIP16:SO16NB	HC109	DUAL J-K FLIP FLOP WITH SET AND RESET
MC74HC11	DIP14:SO14NB	AND3	TRIPLE 3-INPUT AND GATE
MC74HC112	DIP16	HC76	DUAL J-K FLIP FLOP WITH SET AND RESET
MC74HC113	DIP14	HC73	DUAL J-K FLIP-FLOP WITH SET
MC74HC125A	DIP14:SO14NB	HC125	QUAD 3-STATE BUFFER
MC74HC126A	DIP14:SO14NB	HC126	QUAD 3-STATE BUFFER
MC74HC132A	DIP14:SO14NB	NANDST	QUAD 2-INPUT NAND GATE WITH SCHMITT TRIGGER
MC74HC133	DIP16:SO16NB	NAND13	13-INPUT NAND GATE
MC74HC137	DIP16:SO16NB	HC137	1-OF-8 DECODER/DEMULTIPLEXER
MC74HC138A	DIP16:SO16NB	HC138	1-OF-8 DECODER/DEMULTIPLEXER
MC74HC139A	DIP16:SO16NB	HC139	DUAL 1-OF-4 DECODER/DEMULTIPLEXER
MC74HC147	DIP16:SO16NB	HC147	DECIMAL TO BCD ENCODER
MC74HC14A	DIP14:SO14NB	INVST	HEX SCHMITT TRIGGER INVERTER
MC74HC151	DIP16:SO16NB	151	8-INPUT DATA SELECTOR/MULTIPLEXER
MC74HC153	DIP16:SO16NB	153	DUAL 4-INPUT DATA SELECTOR/MULTIPLEXER
MC74HC154	DIP24-300	HC154	1-OF-16 DECODER/DEMULTIPLEXER
MC74HC157A	DIP16:SO16NB	157	QUAD 2-INPUT DATA SELECTOR/MULTIPLEXER
MC74HC158	DIP16:SO16NB	158	QUAD 2-INPUT DATA SELECTOR/MULTIPLEXER

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC74HC160	DIP16:SO16NB	160	PRESETTABLE COUNTER
MC74HC161	DIP16:SO16NB	160	PRESETTABLE COUNTER
MC74HC162	DIP16:SO16NB	160	PRESETTABLE COUNTER
MC74HC163	DIP16:SO16NB	160	PRESETTABLE COUNTER
MC74HC164	DIP14	HC164	8-BIT SERIAL-IN/PARALLEL-OUT SHIFT REGISTER
MC74HC165	DIP16	HC165	8-BIT SERIAL OR PARALLEL-INPUT/SERIAL OUT SHIFT REGISTER
MC74HC173	DIP16:SO16NB	HC173	QUAD 3-STATE D FLIP-FLOP
MC74HC174	DIP16:SO16NB	174	HEX D FLIP-FLOP
MC74HC175	DIP16:SO16NB	HC175	QUAD D FLIP-FLOP
MC74HC194	DIP16	194	4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER
MC74HC195	DIP16	HC195	4-BIT UNIVERSAL SHIFT REG.
MC74HC20	DIP14:SO14NB	NAND4	DUAL 4-INPUT NAND GATE
MC74HC237	DIP16:SO16NB	HC237	1-OF-8 DECODER/DEMULTIPLEXER
MC74HC240A	DIP20:SO20WB	240	OCTAL 3-STATE INVERTING BUFFER
MC74HC241A	DIP20:SO20WB	241	OCTAL 3-STATE NON-INVERTING BUFFER
MC74HC242	DIP14	HC242	QUAD 3-STATE BUS TRANSCEIVER
MC74HC244A	DIP20:SO20WB	244	OCTAL 3-STATE NONINVERTING BUFFER/DRIVER/RCVR
MC74HC245A	DIP20:SO20WB	573	OCTAL 3-STATE NONINVERTING TRANSCEIVER
MC74HC251	DIP16:SO16NB	151	8-INPUT DATA SELECTOR/MULTIPLEXER
MC74HC253	DIP16:SO16NB	153	DUAL 4-INPUT DATA SELECTOR/MULTIPLEXER
MC74HC257	DIP16:SO16NB	157	QUAD 2-INPUT DATA SELECTOR/MULTIPLEXER, 3-STATE OUT
MC74HC259	DIP16:SO16NB	259	8-BIT ADDRESSABLE LATCH, 1-OF-8 DECODER
MC74HC27	DIP14:SO14NB	NOR3	TRIPLE 3-INPUT NOR GATE
MC74HC273	DIP20:SO20WB	574	OCTAL D FLIP-FLOP WITH COMMON CLK AND RST



**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC74HC280	DIP14:SO14NB	280	9-BIT ODD/EVEN PARITY GENERATOR CHECKER
MC74HC299	DIP20:SO20WB	299	8-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER
MC74HC30	DIP14:SO14NB	NAND8	8-INPUT NAND GATE
MC74HC32A	DIP14:SO14NB	OR2	QUAD 2-INPUT OR GATE
MC74HC354	DIP20:SO20WB	354	8-INPUT DATA SELECTOR/MULTIPLEXER
MC74HC365	DIP16	365	HEX 3-STATE NON-INVERTING BUFFER
MC74HC366	DIP16	366	HEX 3-STATE INVERTING BUFFER
MC74HC367	DIP16	367A:367B	HEX 3-STATE NON-INVERTING BUFFER
MC74HC368	DIP16	368A:368B	HEX 3-STATE INVERTING BUFFER
MC74HC373	DIP20:SO20WB	373	OCTAL 3-STATE NON-INVERTING TRANSPARENT LATCH
MC74HC374	DIP20:SO20WB	374	OCTAL 3-STATE NON-INVERTING D FLIP-FLOP
MC74HC386	DIP14:SO14NB	XOR	QUAD 2-INPUT XOR GATE
MC74HC390	DIP16	390	DUAL 4-BIT BINARY RIPPLE COUNTER WITH /2 & /5 SECTIONS
MC74HC393	DIP14	393	DUAL 4-STAGE BINARY RIPPLE COUNTER
MC74HC4002	DIP14:SO14NB	NOR4	DUAL 4-INPUT NOR GATE
MC74HC4016	DIP14:SO14NB	ANLSW	QUAD ANALOG SWITCH/QUAD MULTIPLEXER
MC74HC4017	DIP16:SO16NB	14017	DECADE COUNTER
MC74HC4020	DIP16	14020	14-BIT BINARY COUNTER
MC74HC4024	DIP14:SO14NB	14024	7-STAGE RIPPLE COUNTER
MC74HC4040	DIP16	14040	12-BIT BINARY COUNTER
MC74HC4049	DIP16:SO16NB	INV	HEX BUFFER
MC74HC4050	DIP16:SO16NB	INVNON	HEX BUFFER
MC74HC4051	DIP16:SO16WB	14051	ANALOG MULTIPLEXER/DEMUTIPLEXER
MC74HC4052	DIP16:SO16WB	14052	ANALOG MULTIPLEXER/DEMUTIPLEXER
MC74HC4053	DIP16:SO16WB	14053	ANALOG MULTIPLEXER/DEMUTIPLEXER
MC74HC4060	DIP16	14060	14-BIT BINARY COUNTER AND OSCILLATOR
MC74HC4066	DIP14:SO14NB	ANLSW	QUAD ANALOG SWITCH/QUAD MULTIPLEXER



**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC74HC4075	DIP14:SO14NB	OR3	TRIPLE 3-INPUT OR GATE
MC74HC4078	DIP14:SO14NB	OR/NOR8	8-INPUT OR/NOR GATE
MC74HC42	DIP16:SO16NB	HC42	1-OF-TEN DECODER
MC74HC4316	DIP16:SO16NB	4316	QUAD ANALOG SWITCH/MUX/DEMUX WITH ANL&DIG PWR SUPPLIES
MC74HC4351	DIP20:SO20WB	4351	ANALOG MUX/DEMUX WITH ADDRESS LATCH
MC74HC4352	DIP20:SO20WB	4352	ANALOG MUX/DEMUX WITH ADDRESS LATCH
MC74HC4353	DIP20:SO20WB	4353	ANALOG MUX/DEMUX WITH ADDRESS LATCH
MC74HC4511	DIP16:SO16NB	14511	BCD TO 7 SEGMENT LATCH/DECODER/DRIVER
MC74HC4514	DIP24-600	14514	4-BIT TRANSPARENT LATCH/4 TO 16 LINE DECODER
MC74HC4538	DIP16	14538	DUAL PRECISION MONOSTABLE MULTIVIBRATOR
MC74HC51	DIP14:SO14NB	HC51A:HC51B	2-WIDE, 2-INPUT/2-WIDE, 3-INPUT AND-NOR GATES
MC74HC533	DIP20:SO20WB	533	OCTAL 3-STATE INVERTING TRANSPARENT LATCH
MC74HC534	DIP20:SO20WB	534	OCTAL 3-STATE INVERTING D FLIP-FLOP
MC74HC540	DIP20:SO20WB	540	OCTAL 3-STATE INVERTING BUFFER/DRIVER/RECEIVER
MC74HC541	DIP20:SO20WB	541	OCTAL 3-STATE NON-INVERTING BUFFER/DRIVER/RECEIVER
MC74HC563	DIP20:SO20WB	563	OCTAL 3-STATE INVERTING TRANSPARENT LATCH
MC74HC564	DIP20:SO20WB	564	OCTAL 3-STATE INVERTING D FLIP-FLOP
MC74HC573	DIP20:SO20WB	573	OCTAL 3-STATE NON-INVERTING TRANSPARENT LATCH
MC74HC574	DIP20:SO20WB	574	OCTAL 3-STATE NON-INVERTING D FLIP-FLOP
MC74HC58	DIP14:SO14NB	HC58A:HC58B	2-WIDE, 2-INPUT/2-WIDE, 3-INPUT AND-OR GATES
MC74HC589	DIP16:SO16NB	589	8-BIT SERIAL/PARALLEL SHIFT REGISTER

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC74HC595A	DIP16:SO16NB	595	8-BIT SERIAL/PARALLEL SHIFT REGISTER
MC74HC597	DIP16:SO16NB	597	8-BIT SERIAL/PARALLEL SHIFT REGISTER
MC74HC640	DIP20:SO20WB	640	OCTAL 3-STATE INVERTING BUS TRANSCEIVER
MC74HC646	DIP24-300	646	OCTAL 3-STATE BUS TRANSCEIVER AND D FLIP-FLOP
MC74HC648	DIP24-300	648	OCTAL 3-STATE BUS TRANSCEIVER AND D FLIP-FLOP
MC74HC7266	DIP14:SO14NB	XNOR	QUAD 2-INPUT XOR GATE
MC74HC73	DIP14	HC73	DUAL J-K FLIP-FLOP WITH RESET
MC74HC74A	DIP14:SO14NB	HC74	DUAL D FLIP-FLOP WITH SET AND RESET
MC74HC75	DIP16:SO16NB	HC75	DUAL 2-BIT TRANSPARENT LATCH
MC74HC76	DIP16:SO16NB	HC76	DUAL J-K FLIP FLOP WITH SET AND RESET
MC74HC85	DIP16	HC85	4-BIT MAGNITUDE COMPARATOR
MC74HC86	DIP14:SO14NB	XOR	QUAD 2-INPUT XOR GATE
MC74HCT04A	DIP14:SO14NB	INV	HEX INVERTER WITH LSTTL-COMPATIBLE INPUTS
MC74HCT240A	DIP20:SO20WB	240	OCTAL 3-STATE INVERTING BUFFER WITH LSTTL INPUTS
MC74HCT241A	DIP20:SO20WB	241	OCTAL 3-STATE NON-INVERTING BUFFER WITH LSTTL INPUTS
MC74HCT244A	DIP20:SO20WB	244	OCTAL 3-STATE NONINVERTING BUFFER/DRIVER/RCVR (LSTTL)
MC74HCT245A	DIP20:SO20WB	573	OCTAL 3-STATE NONINVERTING TRANSCEIVER
MC74HCT373A	DIP20:SO20WB	373	OCTAL 3-STATE NON-INVERTING TRANSPARENT LATCH (LSTTL)
MC74HCT374A	DIP20:SO20WB	374	OCTAL 3-STATE NON-INVERTING D FLIP-FLOP
MC74HCT533	DIP20:SO20WB	533	OCTAL 3-STATE INVERTING TRANSPARENT LATCH
MC74HCT534	DIP20:SO20WB	534	OCTAL 3-STATE INVERTING D FLIP-FLOP
MC74HCT540	DIP20:SO20WB	540	OCTAL 3-STATE INVERTING BUFFER/DRIVER/RECEIVER

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC74HCT541	DIP20:SO20WB	541	OCTAL 3-STATE NON-INVERTING BUFFER/DRIVER/RECEIVER
MC74HCT640	DIP20:SO20WB	640	OCTAL 3-STATE INVERTING BUS TRANSCEIVER
MC74HCU04	DIP14:SO14NB	INV	HEX UNBUFFERED INVERTER
MC75125	DIP16	INV	SEVEN CHANNEL LINE RECEIVER
MC75127	DIP16	INV	SEVEN CHANNEL LINE RECEIVER
MC75128	DIP20	75128	EIGHT CHANNEL LINE RECEIVER
MC75129	DIP20	75129	EIGHT CHANNEL LINE RECEIVER
MC7805ACT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC7805AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC7805BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC7805CK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC7805CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC7805K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC7806ACT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +6 VOLTS
MC7806AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +6 VOLTS
MC7806BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +6 VOLTS
MC7806CK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +6 VOLTS
MC7806CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +6 VOLTS
MC7806K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +6 VOLTS
MC7808ACT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC7808AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC7808BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC7808CK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC7808CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC7808K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC7809ACT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +9 VOLTS
MC7809AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +9 VOLTS
MC7809BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +9 VOLTS
MC7809CK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +9 VOLTS
MC7809CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +9 VOLTS
MC7809K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +9 VOLTS
MC7812ACT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC7812AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC7812BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC7812CK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC7812CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC7812K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC7815ACT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC7815AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC7815BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC7815CK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC7815CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC7815K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC7818ACT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +18 VOLTS
MC7818AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +18 VOLTS
MC7818BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +18 VOLTS
MC7818CK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +18 VOLTS
MC7818CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +18 VOLTS
MC7818K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +18 VOLTS
MC7824ACT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +24 VOLTS
MC7824AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +24 VOLTS
MC7824BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +24 VOLTS
MC7824CK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +24 VOLTS
MC7824CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +24 VOLTS
MC7824K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +24 VOLTS
MC78L05ABD	SO8NB	VR-DIP8	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC78L05ABP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78L05ACD	SO8NB	VR-DIP8	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78L05ACG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78L05ACP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78L05CG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78L05CP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78L08ABD	SO8NB	VR-DIP8	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78L08ABP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78L08ACD	SO8NB	VR-DIP8	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78L08ACG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78L08ACP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78L08CG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78L08CP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78L12ABD	SO8NB	VR-DIP8	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78L12ABP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78L12ACD	SO8NB	VR-DIP8	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78L12ACG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78L12ACP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC78L12CG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78L12CP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78L15ABD	SO8NB	VR-DIP8	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78L15ABP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78L15ACD	SO8NB	VR-DIP8	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78L15ACG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78L15ACP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78L15CG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78L15CP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78L18ACG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +18 VOLTS
MC78L18ACP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +18 VOLTS
MC78L18CG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +18 VOLTS
MC78L18CP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +18 VOLTS
MC78L24ACG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +24 VOLTS
MC78L24ACP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +24 VOLTS
MC78L24CG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +24 VOLTS
MC78L24CP	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +24 VOLTS
MC78M05BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS



**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC78M05CDT	DPAK4	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78M05CDT-1	TO-251AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78M05CG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78M05CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78M06CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +6 VOLTS
MC78M08BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78M08CDT	DPAK4	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78M08CDT-1	TO-251AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78M08CG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78M08CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78M12BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78M12CDT	DPAK4	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78M12CDT-1	TO-251AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78M12CG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78M12CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78M15BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78M15CDT-1	TO-251AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78M15CG	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS



**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC78M15CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78M18CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +18 VOLTS
MC78M20CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +20 VOLTS
MC78M24CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +24 VOLTS
MC78T05ABT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78T05ACK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78T05ACT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78T05BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78T05CK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78T05CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
MC78T08BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78T08CK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78T08CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +8 VOLTS
MC78T12ABT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78T12ACK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78T12ACT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78T12BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78T12CK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MC78T12CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
MC78T15ABT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78T15ACK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78T15ACT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78T15BT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78T15CK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC78T15CT	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
MC7905.2CK	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC7905.2CT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC7905ACK	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC7905ACT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC7905BT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC7905CK	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC7905CT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC7906CK	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -6 VOLTS
MC7906CT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -6 VOLTS
MC7908CK	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -8 VOLTS
MC7908CT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -8 VOLTS

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC7912ACK	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC7912ACT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC7912BT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC7912CK	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC7912CT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC7915ACK	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC7915ACT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC7915BT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC7915CK	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC7915CT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC7918CK	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -18.0 VOLTS
MC7918CT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -18.0 VOLTS
MC7924CK	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -24.0 VOLTS
MC7924CT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -24.0 VOLTS
MC79L05ABP	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC79L05ACD	SO8NB	VR-DIP8	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC79L05ACG	TO-39	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC79L05ACP	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC79L05CG	TO-39	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC79L05CP	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC79L12ABP	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC79L12ACD	SO8NB	VR-DIP8	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC79L12ACG	TO-39	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC79L12ACP	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC79L12CG	TO-39	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC79L12CP	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC79L15ABP	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC79L15ACD	SO8NB	VR-DIP8	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC79L15ACG	TO-39	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC79L15ACP	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC79L15CG	TO-39	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC79L15CP	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC79L18ACP	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -18.0 VOLTS
MC79L18CP	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -18.0 VOLTS
MC79L24ACP	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -24.0 VOLTS
MC79L24CP	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -24.0 VOLTS

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MC79M05CDT	DPAK4	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC79M05CDT-1	TO-251AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC79M05CT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -5 VOLTS
MC79M12CDT	DPAK4	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC79M12CDT-1	TO-251AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC79M12CT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -12.0 VOLTS
MC79M15CDT	DPAK4	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC79M15CDT-1	TO-251AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC79M15CT	TO-220AB	VR-3TERM	NEGATIVE VOLTAGE REGULATOR; FIXED -15.0 VOLTS
MC8T26A	DIP16	8T26	QUAD THREE-STATE BUS TRANSCEIVER (INVERTING)
MC8T28	DIP16	8T28	QUAD THREE-STATE BUS TRANSCEIVER
MC8T95	DIP16	8T95A:AND1-E	HEX THREE-STATE BUFFER
MC8T96	DIP16	8T96A:NAND1-E	HEX THREE-STATE INVERTER
MC8T97	DIP16	8T97A-4:8T97A-2:AND1-E	HEX THREE-STATE BUFFER
MC8T98	DIP16	8T98A-4:8T98A-2:NAND1-E	HEX THREE-STATE INVERTER
MCM10139	DIP16:CFP16-04	10139	32X8 BIT PROGRAMMABLE READ ONLY MEMORY
MCM10143	DIP24-600	10143	8X2 MULTIPOINT REGISTER FILE (RAM)
MCM10144	DIP16	10144	256X1 RANDOM ACCESS MEMORY
MCM10145	DIP16	10145	64 BIT REGISTER FILE (RAM)
MCM10146	DIP16	10146	1KX1 RANDOM ACCESS MEMORY
MCM10147	DIP16	10147	128X1 RANDOM ACCESS MEMORY
MCM10148	DIP16	10148	64X1 RANDOM ACCESS MEMORY

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MCM10149	DIP16	10149	256X4 PROGRAMMABLE READ-ONLY MEMORY
MCM10152	DIP16	10152	256X1 RANDOM ACCESS MEMORY
MCM2018AN	DIP24-300	2KX8-724	2KX8 STATIC RAM MEMORY
MCM41464P	DIP18	RD64K4	64K X 4-BIT DYNAMIC NMOS RAM
MCM4180J	SOJ24	4KX4-810A	4KX4 CACHE ADDRESS TAG COMPARATOR
MCM4180P	DIP22-300	4KX4-736A	4KX4 CACHE ADDRESS TAG COMPARATOR
MCM511000AJ	SOJ26/20	1MX1-822	1MX1 CMOS DYNAMIC RAM MEMORY
MCM511000AP	DIP18	1MX1-707A	1MX1 CMOS DYNAMIC RAM MEMORY
MCM511000AZ	ZIP-20PIN	1MX1-836	1MX1 CMOS DYNAMIC RAM, ZIP PACKAGE
MCM511000BJ	SOJ26/20	1MX1-822	1MX1 CMOS DYNAMIC RAM (PAGE MODE)
MCM511000BZ	ZIP-20PIN	1MX1-836	1MX1 CMOS DYNAMIC RAM, PAGE MODE, ZIP PACKAGE
MCM511001AJ	SOJ26/20	1MX1-822	1MX1 CMOS DYNAMIC RAM MEMORY, NIBBLE MODE
MCM511001AP	DIP18	1MX1-707A	1MX1 CMOS DYNAMIC RAM MEMORY, NIBBLE MODE
MCM511001AZ	ZIP-20PIN	1MX1-836	1MX1 CMOS DYNAMIC RAM, NIBBLE MODE, ZIP PACKAGE
MCM511002AJ	SOJ26/20	1MX1-822CS	1MX1 CMOS DYNAMIC RAM MEMORY, STATIC COLUMN
MCM511002AP	DIP18	1MX1-707ACS	1MX1 CMOS DYNAMIC RAM MEMORY, STATIC COLUMN
MCM511002AZ	ZIP-20PIN	1MX1-836CS	1MX1 CMOS DYNAMIC RAM, STATIC COLUMN, ZIP PACKAGE
MCM514256AJ	SOJ26/20	256KX4-822	256KX4 CMOS DYNAMIC RAM MEMORY, PAGE MODE
MCM514256AP	DIP20	256KX4-738A	256KX4 CMOS DYNAMIC RAM MEMORY, PAGE MODE
MCM514256AZ	ZIP-20PIN	256KX4-836	256KX4 CMOS DYNAMIC RAM, PAGE MODE, ZIP PACKAGE
MCM514256BJ	SOJ26/20	256KX4-822	256KX4 CMOS DYNAMIC RAM MEMORY, PAGE MODE

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MCM514256BZ	ZIP-20PIN	256KX4-836	256KX4 CMOS DYNAMIC RAM, PAGE MODE, ZIP PACKAGE
MCM514258AJ	SOJ26/20	256KX4-822CS	256KX4 CMOS DYNAMIC RAM MEMORY, STATIC COLUMN
MCM514258AP	DIP20	256KX4-738ACS	256KX4 CMOS DYNAMIC RAM MEMORY, STATIC COLUMN
MCM514258AZ	ZIP-20PIN	256KX4-836CS	256KX4 CMOS DYNAMIC RAM, STATIC COLUMN, ZIP PACKAGE
MCM51L1000AJ	SOJ26/20	1MX1-822	MCM511000AJ
MCM51L1000AP	DIP18	1MX1-707A	1MX1 CMOS DYNAMIC RAM MEMORY
MCM51L1000AZ	ZIP-20PIN	1MX1-836	1MX1 CMOS DYNAMIC RAM, ZIP PACKAGE
MCM51L1000BJ	SOJ26/20	1MX1-822	1MX1 CMOS DYNAMIC RAM (PAGE MODE)
MCM51L1000BZ	ZIP-20PIN	1MX1-836	1MX1 CMOS DYNAMIC RAM, PAGE MODE, ZIP PACKAGE
MCM51L4256AJ	SOJ26/20	256KX4-822	256KX4 CMOS DYNAMIC RAM MEMORY, PAGE MODE
MCM51L4256AP	DIP20	256KX4-738A	256KX4 CMOS DYNAMIC RAM MEMORY, PAGE MODE
MCM51L4256AZ	ZIP-20PIN	256KX4-836	256KX4 CMOS DYNAMIC RAM, PAGE MODE, ZIP PACKAGE
MCM51L4256BJ	SOJ26/20	256KX4-822	256KX4 CMOS DYNAMIC RAM MEMORY, PAGE MODE
MCM51L4256BZ	ZIP-20PIN	256KX4-836	256KX4 CMOS DYNAMIC RAM, PAGE MODE, ZIP PACKAGE
MCM54100AN	SOJ26/20	4MX1-822	4MX1 CMOS DYNAMIC RAM MEMORY (FAST PAGE MODE)
MCM54100AN-C	SOJ26/20	4MX1-822	4MX1 CMOS DYNAMIC RAM MEMORY
MCM54100AZ	ZIP-20PIN	4MX1-836	4MX1 CMOS DYNAMIC RAM (FAST PAGE MODE), ZIP PACKAGE
MCM54100AZ-C	ZIP-20PIN	4MX1-836	4MX1 CMOS DYNAMIC RAM (FAST PAGE MODE), ZIP PACKAGE
MCM54101AN	SOJ26/20	4MX1-822	4MX1 CMOS DYNAMIC RAM MEMORY (NIBBLE MODE)
MCM54101AZ	ZIP-20PIN	4MX1-836	4MX1 CMOS DYNAMIC RAM (NIBBLE MODE), ZIP PACKAGE



**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MCM54102AN	SOJ26/20	4MX1-822CS	4MX1 CMOS DYNAMIC RAM MEMORY (STATIC COLUMN)
MCM54102AZ	ZIP-20PIN	4MX1-836CS	4MX1 CMOS DYNAMIC RAM (STATIC COLUMN), ZIP PACKAGE
MCM54400AN	SOJ26/20	1MX4-822	1MX4 CMOS DYNAMIC RAM MEMORY (FAST PAGE MODE)
MCM54400AN-C	SOJ26/20	1MX4-822	1MX4 CMOS DYNAMIC RAM MEMORY (FAST PAGE MODE)
MCM54400AZ	ZIP-20PIN	1MX4-836	1MX4 CMOS DYNAMIC RAM (FAST PAGE MODE), ZIP PACKAGE
MCM54400AZ-C	ZIP-20PIN	1MX4-836	1MX4 CMOS DYNAMIC RAM (FAST PAGE MODE), ZIP PACKAGE
MCM54402AN	SOJ26/20	1MX4-822CS	1MX4 CMOS DYNAMIC RAM MEMORY (STATIC COLUMN)
MCM54402AZ	ZIP-20PIN	1MX4-836CS	1MX4 CMOS DYNAMIC RAM (STATIC COLUMN), ZIP PACKAGE
MCM54410AN	SOJ26/20	1MX4-822W	1MX4 CMOS DYNAMIC RAM MEMORY (WRITE PER BIT MODE)
MCM54410AZ	ZIP-20PIN	1MX4-836W	1MX4 CMOS DYNAMIC RAM (WRITE PER BIT), ZIP PACKAGE
MCM54800AJ	SOJ28-2	512X8-810	512X8 CMOS DYNAMIC RAM MEMORY (PAGE MODE)
MCM5L4100AN	SOJ26/20	4MX1-822	4MX1 CMOS DYNAMIC RAM MEMORY (FAST PAGE MODE)
MCM5L4100AZ	ZIP-20PIN	4MX1-836	4MX1 CMOS DYNAMIC RAM (FAST PAGE MODE), ZIP PACKAGE
MCM5L4400AN	SOJ26/20	1MX4-822	1MX4 CMOS DYNAMIC RAM MEMORY (FAST PAGE MODE)
MCM5L4400AZ	ZIP-20PIN	1MX4-836	1MX4 CMOS DYNAMIC RAM (FAST PAGE MODE), ZIP PACKAGE
MCM5L4800AJ	SOJ28-2	512X8-810	512X8 CMOS DYNAMIC RAM MEMORY (PAGE MODE)
MCM5V4800AJ	SOJ28-2	512X8-810	512X8 CMOS DYNAMIC RAM MEMORY (PAGE MODE)
MCM60L256AF-C	SO28WB-2	32KX8-751H	32KX8 STATIC RAM MEMORY



**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MCM60L256AF-V	SO28WB-2	32KX8-751H	32KX8 STATIC RAM MEMORY
MCM60L256AP-C	DIP28-600	32KX8-710	32KX8 STATIC RAM MEMORY
MCM60L256AP-V	DIP28-600:DIP28-300	32KX8-710	32KX8 STATIC RAM MEMORY
MCM6205CJ	SOJ32-1	32KX9-857	32KX9 STATIC RAM MEMORY
MCM6205CP	DIP32-300	32KX9-853	32KX9 STATIC RAM MEMORY
MCM6205NJ	SOJ32-1	32KX9-857	32KX9 STATIC RAM MEMORY
MCM6205NP	DIP32-300	32KX9-853	32KX9 STATIC RAM MEMORY
MCM6206CJ	SOJ28	32KX8-810	32KX8 STATIC RAM MEMORY
MCM6206CP	DIP28-300	32KX8-710	32KX8 STATIC RAM MEMORY
MCM6206NJ	SOJ28	32KX8-810	32KX8 STATIC RAM MEMORY
MCM6206NP	DIP28-300	32KX8-710	32KX8 STATIC RAM MEMORY
MCM6207CJ	SOJ24	256KX1-810	256KX1 STATIC RAM MEMORY
MCM6207CP	DIP24-300	256KX1-724	256KX1 STATIC RAM MEMORY
MCM6207J	SOJ24	256KX1-810	256KX1 STATIC RAM MEMORY
MCM6207P	DIP24-300	256KX1-724	256KX1 STATIC RAM MEMORY
MCM6208CJ	SOJ24	64KX4-810	64KX4 STATIC RAM MEMORY
MCM6208CP	DIP24-300	64KX4-724	64KX4 STATIC RAM MEMORY
MCM6208J	SOJ24	64KX4-810	64KX4 STATIC RAM MEMORY
MCM6208NJ	SOJ24	64KX4-810	64KX4 STATIC RAM MEMORY
MCM6208P	DIP24-300	64KX4-724	64KX4 STATIC RAM MEMORY
MCM6209CJ	SOJ28	64KX4-810B	64KX4 STATIC RAM MEMORY
MCM6209CP	DIP28-300	64KX4-710B	64KX4 STATIC RAM MEMORY
MCM6209J	SOJ28	64KX4-810B	64KX4 STATIC RAM MEMORY
MCM6209P	DIP28-300	64KX4-710B	64KX4 STATIC RAM MEMORY
MCM6226AWJ	SOJ32-2	128KX8-857	128KX8 STATIC RAM MEMORY
MCM6226WJ	SOJ32-2	128KX8-857	128KX8 STATIC RAM MEMORY
MCM6229AWJ	SOJ28-2	256KX4-810	256KX4 STATIC RAM MEMORY
MCM6229WJ	SOJ28-2	256KX4-810	256KX4 STATIC RAM MEMORY

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MCM62350J	SOJ24	4KX4-810A	4KX4 CACHE ADDRESS TAG COMPARATOR
MCM62350P	DIP24-300	4KX4-724	4KX4 CACHE ADDRESS TAG COMPARATOR
MCM62351J	SOJ24	4KX4-810A	4KX4 CACHE ADDRESS TAG COMPARATOR
MCM62351P	DIP24-300	4KX4-724	4KX4 CACHE ADDRESS TAG COMPARATOR
MCM62486AFN	PLCC44	32KX9-777	32KX9 BURSTRAM SYNCHRONOUS STATIC RAM
MCM62486FN	PLCC44	32KX9-777	32KX9 BURSTRAM SYNCHRONOUS STATIC RAM
MCM6249WJ	SOJ32-2	1MX4-857A	1MX4 STATIC RAM MEMORY
MCM6264CJ	SOJ28	8KX8-810	8KX8 STATIC RAM MEMORY
MCM6264CP	DIP28-300	MCM6264	8KX8 STATIC RAM MEMORY
MCM6264NJ	SOJ28	8KX8-810	8KX8 STATIC RAM MEMORY
MCM6264P	DIP28-300	8KX8-710	8KX8 STATIC RAM MEMORY
MCM6265CJ	SOJ28	8KX9-810	8KX9 STATIC RAM MEMORY
MCM6265CP	DIP28-300	8KX9-710	8KX9 STATIC RAM MEMORY
MCM6265NJ	SOJ28	8KX9-810	8KX9 STATIC RAM MEMORY
MCM6265P	DIP28-300	8KX9-710	8KX9 STATIC RAM MEMORY
MCM6268P	DIP20	4KX4-738	4KX4 STATIC RAM MEMORY
MCM6269P	DIP20	4KX4-738	4KX4 STATIC RAM MEMORY
MCM6270J	SOJ24	4KX4-810A	4KX4 STATIC RAM MEMORY
MCM6270P	DIP22-300	4KX4-736A	4KX4 STATIC RAM MEMORY
MCM6287J	SOJ24	64KX1-810A	64KX1 STATIC RAM MEMORY
MCM6287P	DIP24-300	64KX1-724A	64KX1 STATIC RAM MEMORY
MCM6288BP	DIP22-300	16KX4-736A	16KX4 STATIC RAM MEMORY
MCM6288CP	DIP22-300	16KX4-736B	16KX4 STATIC RAM MEMORY
MCM6288P	DIP22-300	16KX4-736A	16KX4 STATIC RAM MEMORY
MCM6290BJ	SOJ24	16KX4-810A	16KX4 STATIC RAM MEMORY
MCM6290BP	DIP24-300	16KX4-724	16KX4 STATIC RAM MEMORY
MCM6290CJ	SOJ24	16KX4-810A	16KX4 STATIC RAM MEMORY
MCM6290CP	DIP24-300	16KX4-724	16KX4 STATIC RAM MEMORY

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MCM6290J	SOJ24	16KX4-810A	16KX4 STATIC RAM MEMORY
MCM6290P	DIP24-300	16KX4-724	16KX4 STATIC RAM MEMORY
MCM6293NJ	SOJ28	16KX4-810B	16KX4 SYNCHRONOUS STATIC RAM
MCM6293P	DIP28-300	16KX4-710A	16KX4 SYNCHRONOUS STATIC RAM
MCM62940AFN	PLCC44	32KX9-777	32KX9 BURSTRAM SYNCHRONOUS STATIC RAM
MCM62940FN	PLCC44	32KX9-777	32KX9 BURSTRAM SYNCHRONOUS STATIC RAM
MCM6294NJ	SOJ28	16KX4-810B	16KX4 SYNCHRONOUS STATIC RAM
MCM6294P	DIP28-300	16KX4-710A	16KX4 SYNCHRONOUS STATIC RAM
MCM62950AFN	PLCC44	32KX9-777	32KX9 SYNCHRONOUS STATIC RAM
MCM62950FN	PLCC44	32KX9-777	32KX9 SYNCHRONOUS STATIC RAM
MCM6295NJ	SOJ28	16KX4-810B	16KX4 SYNCHRONOUS STATIC RAM
MCM6295P	DIP28-300	16KX4-710A	16KX4 SYNCHRONOUS STATIC RAM
MCM62960AFN	PLCC44	32KX9-777	32KX9 SYNCHRONOUS STATIC RAM
MCM62960FN	PLCC44	32KX9-777	32KX9 SYNCHRONOUS STATIC RAM
MCM62963AFN	PLCC44	4KX10-777	4KX10 SYNCHRONOUS STATIC RAM
MCM62963FN	PLCC44	4KX10-777	4KX10 SYNCHRONOUS STATIC RAM
MCM62973AFN	PLCC44	4KX12-777	4KX12 SYNCHRONOUS STATIC RAM
MCM62973FN	PLCC44	4KX12-777	4KX12 SYNCHRONOUS STATIC RAM
MCM62974AFN	PLCC44	4KX12-777	4KX12 SYNCHRONOUS STATIC RAM
MCM62974FN	PLCC44	4KX12-777	4KX12 SYNCHRONOUS STATIC RAM
MCM62975AFN	PLCC44	4KX12-777	4KX12 SYNCHRONOUS STATIC RAM
MCM62975FN	PLCC44	4KX12-777	4KX12 SYNCHRONOUS STATIC RAM
MCM62990AFN	PLCC52	16KX16-778	16KX16 SYNCHRONOUS STATIC RAM
MCM62990FN	PLCC52	16KX16-778	16KX16 SYNCHRONOUS STATIC RAM
MCM62L07J	SOJ24	256KX1-810	256KX1 STATIC RAM MEMORY
MCM62L07P	DIP24-300	256KX1-724	256KX1 STATIC RAM MEMORY
MCM62L08J	SOJ24	64KX4-810	64KX4 STATIC RAM MEMORY
MCM62L08P	DIP24-300	64KX4-724	64KX4 STATIC RAM MEMORY

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MCM62L09J	SOJ28	64KX4-810B	64KX4 STATIC RAM MEMORY
MCM62L09P	DIP28-300	64KX4-710B	64KX4 STATIC RAM MEMORY
MCM6706AJ	SOJ28	32KX8-810B	32KX8 STATIC RAM MEMORY
MCM6706J	SOJ28	32KX8-810B	32KX8 STATIC RAM MEMORY
MCM6708AJ	SOJ24	64KX4-810	64KX4 STATIC RAM MEMORY
MCM6708J	SOJ24	64KX4-810	64KX4 STATIC RAM MEMORY
MCM6709AJ	SOJ28	64KX4-810B	64KX4 STATIC RAM MEMORY
MCM6709J	SOJ28	64KX4-810B	64KX4 STATIC RAM MEMORY
MCM8256Z	870-01	256KX8-870	256KX8 STATIC RAM MEMORY MODULE
MOC1005	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC1006	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC119	DIP6	OPTO-DARL-O	OPTOISOLATOR, DARLINGTON OUTPUT
MOC205	SO8NB	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC206	SO8NB	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC207	SO8NB	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC211	SO8NB	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC212	SO8NB	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC213	SO8NB	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC215	SO8NB	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC216	SO8NB	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC217	SO8NB	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC221	SO8NB	OPTO-DARL	OPTOISOLATOR, DARLINGTON OUTPUT
MOC222	SO8NB	OPTO-DARL	OPTOISOLATOR, DARLINGTON OUTPUT
MOC223	SO8NB	OPTO-DARL	OPTOISOLATOR, DARLINGTON OUTPUT
MOC3000	DIP6	OPTO-SCR	OPTOISOLATOR, SCR OUTPUT
MOC3001	DIP6	OPTO-SCR	OPTOISOLATOR, SCR OUTPUT
MOC3002	DIP6	OPTO-SCR	OPTOISOLATOR, SCR OUTPUT
MOC3003	DIP6	OPTO-SCR	OPTOISOLATOR, SCR OUTPUT
MOC3007	DIP6	OPTO-SCR	OPTOISOLATOR, SCR OUTPUT
MOC3009	DIP6	OPTO-TRAC	OPTOISOLATOR, TRIAC OUTPUT

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MOC3010	DIP6	OPTO-TRAC	OPTOISOLATOR, TRIAC OUTPUT
MOC3011	DIP6	OPTO-TRAC	OPTOISOLATOR, TRIAC OUTPUT
MOC3012	DIP6	OPTO-TRAC	OPTOISOLATOR, TRIAC OUTPUT
MOC3020	DIP6	OPTO-TRAC	OPTOISOLATOR, TRIAC OUTPUT
MOC3021	DIP6	OPTO-TRAC	OPTOISOLATOR, TRIAC OUTPUT
MOC3022	DIP6	OPTO-TRAC	OPTOISOLATOR, TRIAC OUTPUT
MOC3023	DIP6	OPTO-TRAC	OPTOISOLATOR, TRIAC OUTPUT
MOC3031	DIP6	OPTO-TRAC-AC	OPTOISOLATOR, TRIAC OUTPUT
MOC3032	DIP6	OPTO-TRAC-AC	OPTOISOLATOR, TRIAC OUTPUT
MOC3033	DIP6	OPTO-TRAC-AC	OPTOISOLATOR, TRIAC OUTPUT
MOC3041	DIP6	OPTO-TRAC-AC	OPTOISOLATOR, TRIAC OUTPUT
MOC3042	DIP6	OPTO-TRAC-AC	OPTOISOLATOR, TRIAC OUTPUT
MOC3043	DIP6	OPTO-TRAC-AC	OPTOISOLATOR, TRIAC OUTPUT
MOC3061	DIP6	OPTO-TRAC-AC	OPTOISOLATOR, TRIAC OUTPUT
MOC3062	DIP6	OPTO-TRAC-AC	OPTOISOLATOR, TRIAC OUTPUT
MOC3063	DIP6	OPTO-TRAC-AC	OPTOISOLATOR, TRIAC OUTPUT
MOC3081	DIP6	OPTO-TRAC-AC	OPTOISOLATOR, TRIAC OUTPUT
MOC3082	DIP6	OPTO-TRAC-AC	OPTOISOLATOR, TRIAC OUTPUT
MOC3083	DIP6	OPTO-TRAC-AC	OPTOISOLATOR, TRIAC OUTPUT
MOC5007	DIP6	OPTO-LOG	OPTOISOLATOR, LOGIC OUTPUT
MOC5008	DIP6	OPTO-LOG	OPTOISOLATOR, LOGIC OUTPUT
MOC5009	DIP6	OPTO-LOG	OPTOISOLATOR, LOGIC OUTPUT
MOC70H	374-01	OPTO-ISO-O	OPTICAL SWITCH, TRANSISTOR OUTPUT
MOC70K	365-01	OPTO-ISO-O	OPTICAL SWITCH, TRANSISTOR OUTPUT
MOC70P	35.4	OPTO-ISO-O	OPTICAL SWITCH, TRANSISTOR OUTPUT
MOC70T	354A-01	OPTO-ISO-O	OPTICAL SWITCH, TRANSISTOR OUTPUT
MOC70U	354-02	OPTO-ISO-O	OPTICAL SWITCH, TRANSISTOR OUTPUT
MOC70V	354G-01	OPTO-ISO-O	OPTICAL SWITCH, TRANSISTOR OUTPUT
MOC70W1	792-01	OPTO-ISO-8	OPTICAL SWITCH, TRANSISTOR OUTPUT
MOC70W2	792-01	OPTO-ISO-8	OPTICAL SWITCH, TRANSISTOR OUTPUT

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MOC71H	374-01	OPTO-DARL-RES	OPTICAL SWITCH, DARLINGTON OUTPUT
MOC71P	35.4	OPTO-DARL-RES	OPTICAL SWITCH, DARLINGTON OUTPUT
MOC71T	354A-01	OPTO-DARL-RES	OPTICAL SWITCH, DARLINGTON OUTPUT
MOC71U	354-02	OPTO-DARL-RES	OPTICAL SWITCH, DARLINGTON OUTPUT
MOC71V	354G-01	OPTO-DARL-RES	OPTICAL SWITCH, DARLINGTON OUTPUT
MOC71W1	792-01	OPTO-DARL-8	OPTICAL SWITCH, DARLINGTON OUTPUT
MOC75T1	354C-01	OPTO-LOG	OPTICAL SWITCH, LOGIC OUTPUT
MOC75T2	354C-01	OPTO-LOG	OPTICAL SWITCH, LOGIC OUTPUT
MOC75U1	354B-01	OPTO-LOG	OPTICAL SWITCH, LOGIC OUTPUT
MOC75U2	354B-01	OPTO-LOG	OPTICAL SWITCH, LOGIC OUTPUT
MOC8020	DIP6	OPTO-DARL-O	OPTOISOLATOR, DARLINGTON OUTPUT
MOC8021	DIP6	OPTO-DARL-O	OPTOISOLATOR, DARLINGTON OUTPUT
MOC8030	DIP6	OPTO-DARL-O	OPTOISOLATOR, DARLINGTON OUTPUT
MOC8050	DIP6	OPTO-DARL-O	OPTOISOLATOR, DARLINGTON OUTPUT
MOC8080	DIP6	OPTO-DARL	OPTOISOLATOR, DARLINGTON OUTPUT
MOC8100	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC8101	DIP6	OPTO-ISO-O	OPTOISOLATOR, FOR POWER SUPPLY APPLICATIONS
MOC8102	DIP6	OPTO-ISO-O	OPTOISOLATOR, FOR POWER SUPPLY APPLICATIONS
MOC8103	DIP6	OPTO-ISO-O	OPTOISOLATOR, FOR POWER SUPPLY APPLICATIONS
MOC8104	DIP6	OPTO-ISO-O	OPTOISOLATOR, FOR POWER SUPPLY APPLICATIONS
MOC8111	DIP6	OPTO-ISO-O	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC8112	DIP6	OPTO-ISO-O	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC8113	DIP6	OPTO-ISO-O	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC8204	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC8205	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MOC8206	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
NE592	DIP14:SO14NB	OPAMP-WB	VIDEO AMPLIFIER

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
NE592H	TO-100	OPAMP-WB	VIDEO AMPLIFIER
OP-27	DIP8	OPAMP-TRIM	ULTRA-LOW NOISE, OPERATIONAL AMPLIFIER
SAA1042	DIP12-TAB	SAA1042	STEPPER MOTOR DRIVER
SAA1042A	DIP12-TAB	SAA1042	STEPPER MOTOR DRIVER
SE592H	TO-100	OPAMP-WB	VIDEO AMPLIFIER
SG1525AJ	DIP16	16PIN	PULSE WIDTH MODULATION CONTROL CIRCUIT
SG1526J	DIP18	18PIN	PULSE WIDTH MODULATION CONTROL CIRCUIT
SG1527AJ	DIP16	16PIN	PULSE WIDTH MODULATION CONTROL CIRCUIT
SG2525A	DIP16	16PIN	PULSE WIDTH MODULATION CONTROL CIRCUIT
SG2526	DIP18	18PIN	PULSE WIDTH MODULATION CONTROL CIRCUIT
SG2527A	DIP16	16PIN	PULSE WIDTH MODULATION CONTROL CIRCUIT
SG3525A	DIP16	16PIN	PULSE WIDTH MODULATION CONTROL CIRCUIT
SG3526	DIP18	18PIN	PULSE WIDTH MODULATION CONTROL CIRCUIT
SG3527A	DIP16	16PIN	PULSE WIDTH MODULATION CONTROL CIRCUIT
SN75172	DIP16	DRV-EIA422A:DRV-EIA422	QUAD EIA-485 LINE DRIVER WITH 3-STATE OUTPUTS
SN75173	DIP16:SO16NB	RCVR-EIA422A:RCVR-EIA422	QUAD EIA-485 LINE RECEIVER WITH 3-STATE OUTPUTS
SN75174	DIP16	DRV-EIA422B	QUAD EIA-485 LINE DRIVER WITH 3-STATE OUTPUT
SN75175	DIP16:SO16NB	RCVR-EIA422/3	QUAD EIA-485 LINE RECEIVER WITH 3-STATE OUTPUTS
TCA3381	DIP8	8PIN	TELE. RING SIGNAL IMP. MATCHING AND PROTECTION CIR.



**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
TCA3382	DIP24-600	3382	TELE. SET RING DETECTOR AND LOUDSPKR AMP CIRCUIT
TCA3382A	DIP24-600	3382	TELE. SET RING DETECTOR AND LOUDSPKR AMP CIRCUIT
TCA3382B	DIP24-600	3382	TELE. SET RING DETECTOR AND LOUDSPKR AMP CIRCUIT
TCA3383A	DIP28-600	3383	TELEPHONE SET TRANSMISSION CIRCUIT
TCA338BA	DIP28-600	3383	TELEPHONE SET TRANSMISSION CIRCUIT
TCA5600	DIP18	TCA5600	UNIVERSAL MICROPROCESSOR POWER SUPPLY CONTROLLER
TCF5600	DIP18	TCA5600	UNIVERSAL MICROPROCESSOR POWER SUPPLY CONTROLLER
TDA1085A	DIP16	TDA1085	UNIVERSAL MOTOR SPEED CONTROLLER
TDA1085C	DIP16	TDA1085	UNIVERSAL MOTOR SPEED CONTROLLER
TDA1185A	DIP14	14PIN	TRIAC PHASE ANGLE CONTROLLER
TL061AC	DIP8:SO8NB	OPAMP2-TRIM	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
TL061C	DIP8:SO8NB	OPAMP2-TRIM	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
TL061MJG	DIP8	OPAMP2-TRIM	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
TL061V	DIP8:SO8NB	OPAMP2-TRIM	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
TL062AC	DIP8:SO8NB	OPAMP2	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
TL062C	DIP8:SO8NB	OPAMP2	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
TL062MJG	DIP8	OPAMP2	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
TL062V	DIP8:SO8NB	OPAMP2	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
TL064AC	DIP14:SO14NB	OPAMP2	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
TL064C	DIP14:SO14NB	OPAMP2	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER



**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
TL064MJ	DIP14	OPAMP2	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
TL064V	DIP14:SO14NB	OPAMP2	LOW POWER, JFET INPUT, OPERATIONAL AMPLIFIER
TL071AC	DIP8:SO8NB	OPAMP2-TRIM	LOW NOISE, JFET INPUT, OPERATIONAL AMPLIFIER
TL071C	DIP8:SO8NB	OPAMP2-TRIM	LOW NOISE, JFET INPUT, OPERATIONAL AMPLIFIER
TL072AC	DIP8:SO8NB	OPAMP2	LOW NOISE, JFET INPUT, OPERATIONAL AMPLIFIER
TL072C	DIP8:SO8NB	OPAMP2	LOW NOISE, JFET INPUT, OPERATIONAL AMPLIFIER
TL074AC	DIP14	OPAMP2	LOW NOISE, JFET INPUT, OPERATIONAL AMPLIFIER
TL074C	DIP14	OPAMP2	LOW NOISE, JFET INPUT, OPERATIONAL AMPLIFIER
TL081AC	DIP8:SO8NB	OPAMP2-TRIM	JFET INPUT, OPERATIONAL AMPLIFIER
TL081C	DIP8:SO8NB	OPAMP2-TRIM	JFET INPUT, OPERATIONAL AMPLIFIER
TL081MJG	DIP8	OPAMP2-TRIM	JFET INPUT, OPERATIONAL AMPLIFIER
TL082AC	DIP8:SO8NB	OPAMP2	JFET INPUT, OPERATIONAL AMPLIFIER
TL082C	DIP8:SO8NB	OPAMP2	JFET INPUT, OPERATIONAL AMPLIFIER
TL082MJG	DIP8	OPAMP2	JFET INPUT, OPERATIONAL AMPLIFIER
TL084AC	DIP14	OPAMP2	JFET INPUT, OPERATIONAL AMPLIFIER
TL084C	DIP14	OPAMP2	JFET INPUT, OPERATIONAL AMPLIFIER
TL084MJ	DIP14	OPAMP2	JFET INPUT, OPERATIONAL AMPLIFIER
TL431ACD	SO8NB	8PIN	PROGRAMMABLE PRECISION REFERENCE
TL431ACLP	TO-92	ZENER-3P	PROGRAMMABLE PRECISION REFERENCE
TL431ACP	DIP8	8PIN	PROGRAMMABLE PRECISION REFERENCE
TL431AILP	TO-92	ZENER-3P	PROGRAMMABLE PRECISION REFERENCE
TL431AIP	DIP8	8PIN	PROGRAMMABLE PRECISION REFERENCE
TL431C	DIP8	8PIN	PROGRAMMABLE PRECISION REFERENCE
TL431CD	SO8NB	8PIN	PROGRAMMABLE PRECISION REFERENCE

**Table 7-1. Motor-ic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
TL431CLP	TO-92	ZENER-3P	PROGRAMMABLE PRECISION REFERENCE
TL431I	DIP8	8PIN	PROGRAMMABLE PRECISION REFERENCE
TL431ILP	TO-92	ZENER-3P	PROGRAMMABLE PRECISION REFERENCE
TL431MJG	DIP8	8PIN	PROGRAMMABLE PRECISION REFERENCE
TL494C	DIP16	494	PULSE WIDTH MODULATION CONTROL CIRCUIT
TL494I	DIP16	494	PULSE WIDTH MODULATION CONTROL CIRCUIT
TL494MJ	DIP16	494	PULSE WIDTH MODULATION CONTROL CIRCUIT
TL594CN	DIP16	494	PULSE WIDTH MODULATION CONTROL CIRCUIT
TL594IN	DIP16	494	PULSE WIDTH MODULATION CONTROL CIRCUIT
TL594MJ	DIP16	494	PULSE WIDTH MODULATION CONTROL CIRCUIT
TL780-05CKC	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +5 VOLTS
TL780-12CKC	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +12 VOLTS
TL780-15CKC	TO-220AB	VR-3TERM	POSITIVE VOLTAGE REGULATOR; FIXED +15 VOLTS
UA78S40D	DIP16	16PIN	UNIVERSAL SWITCHING REGULATOR SUBSYSTEM
UA78S40P	DIP16	16PIN	UNIVERSAL SWITCHING REGULATOR SUBSYSTEM
UAA1016B	DIP8	UAA1016B	ZERO VOLTAGE SWITCH
ULN2001A	DIP16	INV-DIO-C:INV-DIO	PERIPHERAL DRIVER ARRAY
ULN2002A	DIP16	INV-DIO-C:INV-DIO	PERIPHERAL DRIVER ARRAY
ULN2003A	DIP16	INV-DIO-C:INV-DIO	PERIPHERAL DRIVER ARRAY
ULN2004A	DIP16	INV-DIO-C:INV-DIO	PERIPHERAL DRIVER ARRAY
ULN2068B	DIP16	2068	QUAD 1.5A DARLINGTON SWITCH
ULN2074B	DIP16	DRV-EIA422	QUAD 1.5A DARLINGTON SWITCH

**Table 7-1. Motor-ic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
JLN2801A	DIP18	INV-DIO-C:INV-DIO	OCTAL PERIPHERAL DRIVER ARRAY
JLN2802A	DIP18	INV-DIO-C:INV-DIO	OCTAL PERIPHERAL DRIVER ARRAY
JLN2803A	DIP18	INV-DIO-C:INV-DIO	OCTAL PERIPHERAL DRIVER ARRAY
JLN2804A	DIP18	INV-DIO-C:INV-DIO	OCTAL PERIPHERAL DRIVER ARRAY



## Chapter 8

# Motor-tx Library

The following table lists all the part types in the motor-tx sample library. This listing is based on the part types and lists any associated PCB Decals and Logic Decals. The associated PCB and/or Logic decals are not necessarily sourced from the same library as the part type.

**Table 8-1. Motor-tx Library Part Types**

Part Type	PCB Decals	Logic Decals	Description
.5KE220	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=220V
.5KE220A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=220V
.5KE250	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=250V
.5KE250A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=250V
.5SMC10A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
.5SMC11A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
.5SMC12A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
.5SMC13A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
.5SMC15A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
.5SMC16A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
.5SMC18A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
.5SMC20A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
.5SMC22A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
.5SMC24A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
.5SMC27A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
.5SMC30A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
.5SMC33A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
.5SMC36A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
.5SMC39A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
.5SMC43A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=4
.5SMC47A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=4
.5SMC51A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=5
.5SMC56A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=5
.5SMC6.8A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6.8V
.5SMC62A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6
.5SMC68A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6
.5SMC7.5A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=7.5V
.5SMC75A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=7
.5SMC8.2A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=8.2V
.5SMC82A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=8
.5SMC9.1A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=9.1V
.5SMC91A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=9
M110ZS5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=110V
M120ZS5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=120V
M130ZS5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=130V
M150ZS5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=150V
M160ZS5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=160V
M180ZS5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=180V
M200ZS5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=200V
N4370A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.4V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
N4371A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V
N4372A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
N4565	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4565A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4566	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4566A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4567	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4567A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4568	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4568A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4569	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4569A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4570	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4570A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4571	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4571A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4572	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4572A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
N4573	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4573A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4574	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4574A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.4V
N4678	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=1.8V
N4679	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.0V
N4680	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.2V
N4681	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.4V
N4682	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V
N4683	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
N4684	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
N4685	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
N4686	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
N4687	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
N4688	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
N4689	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
N4690	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
N4691	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V



**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N4692	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
N4693	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
N4694	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
N4695	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.7V
N4696	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
N4697	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
N4698	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
N4699	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
N4700	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
N4701	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=14V
N4702	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
N4703	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
N4704	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=17V
N4705	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
N4706	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=19V
N4707	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
N4708	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
N4709	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N4710	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=25V
N4711	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
N4712	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=28V
N4713	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
N4714	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
N4715	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
N4716	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
N4717	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
N4728A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
N4729A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
N4730A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
N4731A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
N4732A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
N4733A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
N4734A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
N4735A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
N4736A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
N4737A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N4738A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
N4739A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
N4740A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
N4741A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
N4742A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
N4743A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
N4744A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
N4745A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
N4746A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
N4747A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
N4748A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
N4749A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
N4750A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
N4751A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
N4752A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
N4753A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
N4754A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
N4755A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N4756A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
N4757A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
N4758A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
N4759A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
N4760A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
N4761A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
N4762A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=82V
N4763A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=91V
N4764A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
N5139	DO7	DIOCAP-51	6.8 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5139A	DO7	DIOCAP-51	6.8 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5140	DO7	DIOCAP-51	10 PF, 60 VOLT VOLTAGE VARIABLE CAPACITANCE DIODE
N5140A	DO7	DIOCAP-51	10 PF, 60 VOLT VOLTAGE VARIABLE CAPACITANCE DIODE
N5141	DO7	DIOCAP-51	12 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5141A	DO7	DIOCAP-51	12 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5142	DO7	DIOCAP-51	15 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5142A	DO7	DIOCAP-51	15 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5143	DO7	DIOCAP-51	18 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
N5143A	DO7	DIOCAP-51	18 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5144	DO7	DIOCAP-51	22 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5144A	DO7	DIOCAP-51	22 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5145	DO7	DIOCAP-51	27 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5145A	DO7	DIOCAP-51	27 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5146	DO7	DIOCAP-51	33 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5146A	DO7	DIOCAP-51	33 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5147	DO7	DIOCAP-51	39 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5147A	DO7	DIOCAP-51	39 PF, 60 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5148	DO7	DIOCAP-51	47 PF, VOLTAGE VARIABLE CAPACITANCE DIODE
N5148A	DO7	DIOCAP-51	47 PF, VOLTAGE VARIABLE CAPACITANCE DIODE
N5221B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.4V
N5222B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.5V
N5223B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V
N5224B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.8V
N5225B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
N5226B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
N5227B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
N5228B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
N5229B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
N5230B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
N5231B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
N5232B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.8V
N5233B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.0V
N5234B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
N5235B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
N5236B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
N5237B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
N5238B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.7V
N5239B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
N5240B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
N5241B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
N5242B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
N5243B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
N5244B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=14V
N5245B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N5246B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
N5247B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=17V
N5248B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
N5249B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=19V
N5250B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
N5251B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
N5252B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
N5253B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=25V
N5254B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
N5255B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=28V
N5256B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
N5257B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
N5258B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
N5259B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
N5260B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
N5261B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
N5262B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
N5263B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N5264B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=60V
N5265B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
N5266B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
N5267B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
N5268B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=82V
N5269B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=87V
N5270B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=91V
N5271B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
N5272B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=110V
N5273B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=120V
N5274B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=130V
N5275B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=140V
N5276B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=150V
N5277B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=160V
N5278B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=170V
N5279B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=180V
N5280B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=190V
N5281B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=200V



**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N5333B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
N5334B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
N5335B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
N5336B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
N5337B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
N5338B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
N5339B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
N5340B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.0V
N5341B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
N5342B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
N5343B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
N5344B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
N5345B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.7V
N5346B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
N5347B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
N5348B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
N5349B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
N5350B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N5351B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=14V
N5352B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
N5353B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
N5354B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=17V
N5355B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
N5356B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=19V
N5357B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
N5358B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
N5359B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
N5360B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=25V
N5361B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
N5362B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=28V
N5363B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
N5364B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
N5365B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
N5366B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
N5367B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
N5368B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N5369B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
N5370B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
N5371B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=60V
N5372B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
N5373B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
N5374B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
N5375B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=82V
N5376B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=87V
N5377B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=91V
N5378B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
N5379B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=110V
N5380B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=120V
N5381B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=130V
N5382B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=140V
N5383B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=150V
N5384B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=160V
N5385B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=170V
N5386B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=180V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N5387B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=190V
N5388B	17-02	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=200V
N5441A	DO7	DIOCAP-51	6.8 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5441B	DO7	DIOCAP-51	6.8 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5443A	DO7	DIOCAP-51	10 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5443B	DO7	DIOCAP-51	10 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5444A	DO7	DIOCAP-51	12 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5444B	DO7	DIOCAP-51	12 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5445A	DO7	DIOCAP-51	15 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5445B	DO7	DIOCAP-51	15 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5446A	DO7	DIOCAP-51	18 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5446B	DO7	DIOCAP-51	18 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5448A	DO7	DIOCAP-51	22 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5448B	DO7	DIOCAP-51	22 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5449A	DO7	DIOCAP-51	27 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5449B	DO7	DIOCAP-51	27 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5450A	DO7	DIOCAP-51	33 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5450B	DO7	DIOCAP-51	33 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
N5451A	DO7	DIOCAP-51	39 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5451B	DO7	DIOCAP-51	39 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5452A	DO7	DIOCAP-51	47 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5452B	DO7	DIOCAP-51	47 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5453A	DO7	DIOCAP-51	56 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5453B	DO7	DIOCAP-51	56 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5455A	DO7	DIOCAP-51	82 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5455B	DO7	DIOCAP-51	82 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5456A	DO7	DIOCAP-51	100 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5456B	DO7	DIOCAP-51	100 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
N5908	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=5.0V
N5913B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
N5914B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
N5915B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
N5916B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
N5917B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
N5918B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
N5919B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N5920B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
N5921B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
N5922B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
N5923B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
N5924B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
N5925B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
N5926B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
N5927B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
N5928B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
N5929B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
N5930B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
N5931B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
N5932B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
N5933B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
N5934B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
N5935B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
N5936B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
N5937B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N5938B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
N5939B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
N5940B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
N5941B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
N5942B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
N5943B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
N5944B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
N5945B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
N5946B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
N5947B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=82V
N5948B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=91V
N5949B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
N5950B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=110V
N5951B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=120V
N5952B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=130V
N5953B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=150V
N5954B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=160V
N5955B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=180V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
N5956B	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=200V
N5985B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.4V
N5986B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V
N5987B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
N5988B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
N5989B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
N5990B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
N5991B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
N5992B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
N5993B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
N5994B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
N5995B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
N5996B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
N5997B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
N5998B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
N5999B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
N6000B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
N6001B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V



**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N6002B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
N6003B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
N6004B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
N6005B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
N6006B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
N6007B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
N6008B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
N6009B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
N6010B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
N6011B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
N6012B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
N6013B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
N6014B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
N6015B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
N6016B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
N6017B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
N6018B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
N6019B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
N6020B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
N6021B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
N6022B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=82V
N6023B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=91V
N6024B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
N6025B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=110V
N6267	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6.8V
N6267A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6.8V
N6268	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=7.5V
N6268A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=7.5V
N6269	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=8.2V
N6269A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=8.2V
N6270	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=9.1V
N6270A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=9.1V
N6271	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
N6271A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
N6272	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
N6272A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
N6273	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
N6273A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
N6274	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N6274A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
N6275	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
N6275A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
N6276	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
N6276A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
N6277	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
N6277A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
N6278	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
N6278A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
N6279	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
N6279A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
N6280	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
N6280A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
N6281	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
N6281A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
N6282	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
N6282A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
N6283	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
N6283A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
N6284	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
N6284A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
N6285	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
N6285A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
N6286	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=4
N6286A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=4
N6287	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=4
N6287A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=4
N6288	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=5
N6288A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=5
N6289	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=5

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
N6289A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=5
N6290	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6
N6290A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6
N6291	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6
N6291A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6
N6292	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=7
N6292A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=7
N6293	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=8
N6293A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=8
N6294	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=9
N6294A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=9
N6295	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=100V
N6295A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=100V
N6296	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=110V
N6296A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=110V
N6297	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=120V
N6297A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=120V
N6298	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=130V
N6298A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=130V
N6299	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=150V
N6299A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=150V
N6300	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=160V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
N6300A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=160V
N6301	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=170V
N6301A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=170V
N6302	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=180V
N6302A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=180V
N6303	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=200V
N6303A	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=200V
N6373	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=5.0V
N6374	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=8.0V
N6375	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=10V
N6376	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=12V
N6377	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=15V
N6378	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=18V
N6379	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=22V
N6380	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=36V
N6381	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=45V
N6382	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=8.0V
N6383	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=10V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
N6384	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=12V
N6385	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=15V
N6386	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=18V
N6387	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=22V
N6388	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=36V
N6389	41A-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=45V
N746A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
N747A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
N748A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
N749A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
N750A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
N751A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
N752A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
N753A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
N754A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
N755A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
N756A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
N757A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
N758A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
N759A	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
N821	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.2V
N821A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.2V
N823	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.2V
N823A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.2V
N825	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.2V
N825A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.2V
N827	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.2V
N827A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.2V
N829	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.2V
N829A	DO35	ZENER	TEMPERATURE-COMPENSATED ZENER REFERENCE DIODE, VZ=6.2V
N957B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
N958B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
N959B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
N960B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
N961B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
N962B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
N963B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
N964B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
N965B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
N966B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
N967B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
N968B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
N969B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
N970B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
N971B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
N972B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
N973B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
N974B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
N975B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
N976B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
N977B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
N978B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
N979B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
N980B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
N981B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
N982B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
N983B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=82V
N984B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=91V
N985B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
N986B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=110V
N987B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=120V
N988B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=130V
N989B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=150V
N990B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=160V
N991B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=180V
N992B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=200V
SMB100A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=100V
SMB10A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=10V
SMB110A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=110V
SMB11A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=11V
SMB120A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=120V
SMB12A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=12V
SMB130A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=130V
SMB13A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=13V
SMB14A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=14V
SMB150A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=150V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
SMB15A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=15V
SMB160A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=160V
SMB16A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=16V
SMB170A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=170V
SMB17A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=17V
SMB18A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=18V
SMB20A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=20V
SMB22A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=22V
SMB24A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=24V
SMB26A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=26V
SMB28A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=28V
SMB30A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=30V
SMB33A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=33V
SMB36A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=36V
SMB40A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=40V
SMB43A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=43V
SMB45A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=45V
SMB48A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=48V
SMB5.0A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=5.0V
SMB51A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=51V
SMB54A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=54V
SMB58A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=58V
SMB5913BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
SMB5914BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
SMB5915BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
SMB5916BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
SMB5917BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
SMB5918BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
SMB5919BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
SMB5920BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
SMB5921BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
SMB5922BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
SMB5923BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
SMB5924BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
SMB5925BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
SMB5926BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
SMB5927BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
SMB5928BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
SMB5929BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
SMB5930BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
SMB5931BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
SMB5932BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
SMB5933BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
SMB5934BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
SMB5935BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
SMB5936BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
SMB5937BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
SMB5938BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
SMB5939BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
SMB5940BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
SMB5941BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
SMB5942BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
SMB5943BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
SMB5944BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
SMB5945BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
SMB5946BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
SMB5947BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=82V
SMB5948BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=91V
SMB5949BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
SMB5950BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=110V
SMB5951BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=120V
SMB5952BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=130V

Table 8-1. Motor-tx Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
SMB5953BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=150V
SMB5954BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=160V
SMB5955BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=180V
SMB5956BT3	SMB	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=200V
SMB6.0A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=6.0
SMB6.5A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=6.5
SMB60A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=60
SMB64A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=64
SMB7.0A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=7.0
SMB7.5A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=7.5
SMB70A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=70
SMB75A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=75
SMB78A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=78
SMB8.0A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=8.0
SMB8.5A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=8.5
SMB85A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=85
SMB9.0A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=9.0
SMB90A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=90
SMC10A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=10
SMC11A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=11
SMC12A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=12
SMC13A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=13
SMC14A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=14
SMC15A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=15
SMC16A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=16
SMC17A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=17
SMC18A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=18

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
SMC20A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=20V
SMC22A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=22V
SMC24A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=24V
SMC26A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=26V
SMC28A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=28V
SMC30A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=30V
SMC33A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=33V
SMC36A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=36V
SMC40A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=40V
SMC43A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=43V
SMC45A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=45V
SMC48A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=48V
SMC5.0A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=5.0V
SMC51A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=51V
SMC54A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=54V
SMC58A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=58V
SMC6.0A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=6.0V
SMC6.5A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=6.5V
SMC60A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=60V
SMC64A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=64V
SMC7.0A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=7.0V
SMC7.5A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=7.5V
SMC70A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=70V
SMC75A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=75V
SMC78A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=78V
SMC8.0A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=8.0V
SMC8.5A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=8.5V
SMC9.0A	SMC	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=9.0V
1N1595	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
EN1596	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
EN1597	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
EN1599	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
EN1613	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN1711	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN1843	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
EN1843A	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
EN1844	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
EN1844A	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
EN1846	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
EN1846A	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
EN1849	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
EN1849A	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
EN1893	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN2102	TO-39	NPN	AMPLIFIER NPN SILICON TRANSISTOR
EN2218A	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN2219	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN2219A	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
2N2222	TO-18	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N2222A	TO-18	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N2270	TO-39	NPN	AMPLIFIER NPN SILICON TRANSISTOR
2N2323	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
2N2324	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
2N2326	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
2N2329	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
2N2369	TO-18	NPN	SWITCHING NPN SILICON TRANSISTOR
2N2484	TO-18	NPN	AMPLIFIER NPN SILICON TRANSISTOR
2N2857	20-03	NPN-CASE	NPN RF SMALL SIGNAL TRANSISTOR
2N2894	TO-18	NPN	SWITCHING NPN SILICON TRANSISTOR
2N2895	TO-18	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N2896	TO-18	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N2904	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N2904A	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N2905	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N2905A	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N2906	TO-18	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N2906A	TO-18	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N2907	TO-18	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR



**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
2N2907A	TO-18	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N3019	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N3020	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N3053	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N3053A	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N3054	TO-213AA	NPN	NPN POWER TRANSISTOR, 55 VOLTS/25 WATTS
2N3054A	TO-213AA	NPN	NPN POWER TRANSISTOR, 55 VOLTS/75 WATTS
2N3055	TO-204AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/115 WATTS
2N3055A	TO-204AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/115 WATTS
2N3244	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N3250	TO-18	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N3251	TO-18	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N3251A	TO-18	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N3441	TO-213AA	NPN	NPN POWER TRANSISTOR, 140 VOLTS/25 WATTS
2N3442	TO-204AA	NPN	NPN POWER TRANSISTOR, 140 VOLTS/117 WATTS
2N3447	TO-204AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/115 WATTS
2N3448	TO-204AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/115 WATTS
2N3467	TO-39	PNP	SWITCHING PNP SILICON TRANSISTOR
2N3468	TO-39	PNP	SWITCHING PNP SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
2N3495	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N3497	TO-18	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N3499	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N3500	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N3501	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N3546	TO-18	PNP	SWITCHING PNP SILICON TRANSISTOR
2N3553	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
2N3583	TO-213AA	NPN	NPN POWER TRANSISTOR, 175 VOLTS/35 WATTS
2N3584	TO-213AA	NPN	NPN POWER TRANSISTOR, 250 VOLTS/35 WATTS
2N3585	TO-213AA	NPN	NPN POWER TRANSISTOR, 300 VOLTS/35 WATTS
2N3634	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N3635	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N3636	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N3637	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N3700	TO-18	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N3714	TO-204AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/150 WATTS
2N3715	TO-204AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/150 WATTS
2N3716	TO-204AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/150 WATTS
2N3719	TO-39	PNP	PNP POWER TRANSISTOR, 40 VOLTS/6 WATT

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
2N3720	TO-39	PNP	PNP POWER TRANSISTOR, 60 VOLTS/6 WATTS
2N3738	TO-213AA	NPN	NPN POWER TRANSISTOR, 225 VOLTS/20 WATTS
2N3739	TO-213AA	NPN	NPN POWER TRANSISTOR, 300 VOLTS/20 WATTS
2N3740	TO-213AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/25 WATTS
2N3741	TO-213AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/25 WATTS
2N3741A	TO-213AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/25 WATTS
2N3762	TO-39	PNP	SWITCHING PNP SILICON TRANSISTOR
2N3766	TO-213AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/20 WATTS
2N3767	TO-213AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/20 WATTS
2N3771	TO-204AA	NPN	NPN POWER TRANSISTOR, 40 VOLTS/150 WATTS
2N3772	TO-204AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/150 WATTS
2N3773	TO-204AA	NPN	NPN POWER TRANSISTOR, 140 VOLTS/150 WATTS
2N3789	TO-204AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/150 WATTS
2N3790	TO-204AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/150 WATTS
2N3791	TO-204AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/150 WATTS
2N3792	TO-204AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/150 WATTS
2N3799	TO-18	PNP	AMPLIFIER PNP SILICON TRANSISTOR
2N3866	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
2N3866A	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
2N3867	TO-39	PNP	PNP POWER TRANSISTOR, 40 VOLTS/6 WATTS
2N3868	TO-39	PNP	PNP POWER TRANSISTOR, 60 VOLTS/6 WATTS
2N3902	TO-204AA	NPN	NPN POWER TRANSISTOR, 400 VOLTS/100 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
EN3903	TO-92:TO-92A:TO-92B:TO-92C	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN3904	TO-92:TO-92A:TO-92B:TO-92C	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN3905	TO-92:TO-92A:TO-92B:TO-92C	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
EN3906	TO-92:TO-92A:TO-92B:TO-92C	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
EN3924	TO-39	NPN	NPN RF POWER TRANSISTOR
EN3947	TO-18	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN3948	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
EN3959	TO-18	NPN	NPN HIGH FREQUENCY TRANSISTOR
EN3960	TO-18	NPN	NPN HIGH FREQUENCY TRANSISTOR
EN3963	TO-18	PNP	AMPLIFIER PNP SILICON TRANSISTOR
EN3964	TO-18	PNP	AMPLIFIER PNP SILICON TRANSISTOR
EN4014	TO-18	NPN	SWITCHING NPN SILICON TRANSISTOR
EN4032	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
EN4033	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
EN4036	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
EN4037	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
EN4123	TO-92:TO-92A:TO-92B:TO-92C	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN4124	TO-92:TO-92A:TO-92B:TO-92C	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN4125	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
EN4126	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
EN4208	TO-18	PNP	SWITCHING PNP SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
EN4213	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
EN4214	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
EN4216	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
EN4219	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
EN4233A	TO-213AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/75 WATTS
EN4240	TO-213AA	NPN	NPN POWER TRANSISTOR, 300 VOLTS/35 WATTS
EN4264	TO-92:TO-92A:TO-92B:TO-92C	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN4265	TO-92:TO-92A:TO-92B:TO-92C	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN4347	TO-204AA	NPN	NPN POWER TRANSISTOR, 120 VOLTS/100 WATTS
EN4398	TO-204AA	PNP	PNP POWER TRANSISTOR, 40 VOLTS/200 WATTS
EN4399	TO-204AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/200 WATTS
EN4400	TO-92:TO-92A:TO-92B:TO-92C	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN4401	TO-92:TO-92A:TO-92B:TO-92C	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
EN4402	TO-92:TO-92A:TO-92B:TO-92C	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
EN4403	TO-92:TO-92A:TO-92B:TO-92C	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
EN4404	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
EN4405	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
EN4407	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
2N4410	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
2N4427	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
2N4428	TO-39	NPN	NPN RF POWER TRANSISTOR
2N4870	TO-92	PN-UJT	PN UNIJUNCTION TRANSISTOR
2N4871	TO-92	PN-UJT	PN UNIJUNCTION TRANSISTOR
2N4912	TO-213AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/25 WATTS
2N4918	TO-225AA	PNP	PNP GENERAL PURPOSE POWER TRANSISTOR, 40 VOLTS/30 WATTS
2N4919	TO-225AA	PNP	PNP GENERAL PURPOSE POWER TRANSISTOR, 60 VOLTS/30 WATTS
2N4920	TO-225AA	PNP	PNP GENERAL PURPOSE POWER TRANSISTOR, 80 VOLTS/30 WATTS
2N4921	TO-225AA	NPN	NPN GENERAL PURPOSE POWER TRANSISTOR, 40 VOLTS/30 WATTS
2N4922	TO-225AA	NPN	NPN GENERAL PURPOSE POWER TRANSISTOR, 60 VOLTS/30 WATTS
2N4923	TO-225AA	NPN	NPN GENERAL PURPOSE POWER TRANSISTOR, 80 VOLTS/30 WATTS
2N4931	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
2N4957	20-03	PNP-CASE	PNP HIGH FREQUENCY TRANSISTOR
2N4958	20-03	PNP-CASE	PNP HIGH FREQUENCY TRANSISTOR
2N4959	20-03	PNP-CASE	PNP HIGH FREQUENCY TRANSISTOR
2N5031	20-03	NPN-CASE	NPN HIGH FREQUENCY TRANSISTOR
2N5032	20-03	NPN-CASE	NPN HIGH FREQUENCY TRANSISTOR
2N5038	TO-204AA	NPN	NPN POWER TRANSISTOR, 75 VOLTS/140 WATTS
2N5039	TO-204AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/140 WATTS
2N5058	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
EN5060	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=30V
EN5061	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=60V
EN5062	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
EN5063	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=150V
EN5064	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
EN5086	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
EN5087	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
EN5088	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
EN5089	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
EN5108	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
EN5109	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
EN5160	TO-39	PNP	PNP HIGH FREQUENCY TRANSISTOR
EN5168	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
EN5169	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
EN5170	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
EN5171	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
EN5179	20-03	NPN-CASE	NPN HIGH FREQUENCY TRANSISTOR
EN5190	TO-225AA	NPN	NPN POWER TRANSISTOR, 40 VOLTS/40 WATTS
EN5191	TO-225AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/40 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
EN5192	TO-225AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/40 WATTS
EN5193	TO-225AA	PNP	PNP POWER TRANSISTOR, 40 VOLTS/40 WATTS
EN5194	TO-225AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/40 WATTS
EN5195	TO-225AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/40 WATTS
EN5209	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
EN5210	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
EN5223	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
EN5301	TO-204AA	NPN	NPN POWER TRANSISTOR, 40 VOLTS/200 WATTS
EN5302	TO-204AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/200 WATTS
EN5303	TO-204AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/200 WATTS
EN5336	TO-39	NPN	NPN POWER TRANSISTOR, 80 VOLTS/5 WATTS
EN5337	TO-39	NPN	NPN POWER TRANSISTOR, 80 VOLTS/5 WATTS
EN5338	TO-39	NPN	NPN POWER TRANSISTOR, 100 VOLTS/5 WATTS
EN5339	TO-39	NPN	NPN POWER TRANSISTOR, 100 VOLTS/5 WATTS
EN5400	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
EN5401	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
EN5428	TO-213AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/40 WATTS
EN5429	TO-213AA	NPN	NPN POWER TRANSISTOR, 100 VOLTS/40 WATTS
EN5430	TO-213AA	NPN	NPN POWER TRANSISTOR, 100 VOLTS/40 WATTS
EN5444	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
EN5445	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
EN5446	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
EN5457	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, GENERAL PURPOSE JFET
EN5458	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, GENERAL PURPOSE JFET
EN5459	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, GENERAL PURPOSE JFET
EN5460	TO-92:TO-92A:TO-92B:TO-92C	PFET	P-CHANNEL,DEPLETION MODE, AMPLIFIER JFET
EN5461	TO-92:TO-92A:TO-92B:TO-92C	PFET	P-CHANNEL,DEPLETION MODE, AMPLIFIER JFET
EN5462	TO-92:TO-92A:TO-92B:TO-92C	PFET	P-CHANNEL,DEPLETION MODE, AMPLIFIER JFET
EN5484	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
EN5485	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
EN5486	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
EN5550	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
EN5551	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
EN5555	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
EN5583	TO-39	PNP	PNP HIGH FREQUENCY TRANSISTOR
EN5629	TO-204AA	NPN	NPN POWER TRANSISTOR,100 VOLTS/200 WATTS
EN5630	TO-204AA	NPN	NPN POWER TRANSISTOR,120 VOLTS/200 WATTS
EN5631	TO-204AA	NPN	NPN POWER TRANSISTOR,140 VOLTS/200 WATTS
EN5638	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
EN5639	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
EN5640	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
EN5655	TO-225AA	NPN	NPN POWER TRANSISTOR,250 VOLTS/20 WATTS
EN5656	TO-225AA	NPN	NPN POWER TRANSISTOR,300 VOLTS/20 WATTS
EN5657	TO-225AA	NPN	NPN POWER TRANSISTOR,350 VOLTS/20 WATTS
EN5668	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF AMPLIFIER JFET
EN5669	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF AMPLIFIER JFET
EN5670	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF AMPLIFIER JFET
EN5683	TO-204AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/300 WATTS
EN5684	TO-204AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/300 WATTS
EN5685	TO-204AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/300 WATTS
EN5686	TO-204AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/300 WATTS
EN5745	TO-204AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/200 WATTS
EN5758	TO-204AA	NPN	NPN POWER TRANSISTOR,100 VOLTS/150 WATTS
EN5760	TO-204AA	NPN	NPN POWER TRANSISTOR,140 VOLTS/150 WATTS
EN5835	20-03	NPN-CASE	NPN HIGH FREQUENCY TRANSISTOR
EN5836	26-03	NPN	NPN HIGH FREQUENCY TRANSISTOR
EN5837	26-03	NPN	NPN HIGH FREQUENCY TRANSISTOR
EN5875	TO-204AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/150 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
EN5876	TO-204AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/150 WATTS
EN5877	TO-204AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/150 WATTS
EN5878	TO-204AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/150 WATTS
EN5879	TO-204AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/160 WATTS
EN5880	TO-204AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/160 WATTS
EN5881	TO-204AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/160 WATTS
EN5882	TO-204AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/160 WATTS
EN5883	TO-204AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/200 WATTS
EN5884	TO-204AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/200 WATTS
EN5885	TO-204AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/200 WATTS
EN5886	TO-204AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/200 WATTS
EN5943	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
EN5989	TO-225AB	NPN	NPN POWER TRANSISTOR, 40 VOLTS/100 WATTS
EN5991	TO-225AB	NPN	NPN POWER TRANSISTOR, 80 VOLTS/100 WATTS
EN6027	TO-92	PUT	PROGRAMMABLE UNIJUNCTION TRANSISTOR
EN6028	TO-92	PUT	PROGRAMMABLE UNIJUNCTION TRANSISTOR
EN6029	TO-204AA	PNP	PNP POWER TRANSISTOR, 100 VOLTS/200 WATTS
EN6030	TO-204AA	PNP	PNP POWER TRANSISTOR, 120 VOLTS/200 WATTS
EN6031	TO-204AA	PNP	PNP POWER TRANSISTOR, 140 VOLTS/200 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
EN6034	TO-225AA	PNP	PNP POWER TRANSISTOR, 40 VOLTS/40 WATTS
EN6035	TO-225AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/40 WATTS
EN6036	TO-225AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/40 WATTS
EN6037	TO-225AA	NPN	NPN POWER TRANSISTOR, 40 VOLTS/40 WATTS
EN6038	TO-225AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/40 WATTS
EN6039	TO-225AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/40 WATTS
EN6040	TO-220AB	DARL-PNP	PNP DARLINGTON, 60 VOLTS/75 WATTS
EN6041	TO-220AB	DARL-PNP	PNP DARLINGTON, 80 VOLTS/75 WATTS
EN6042	TO-220AB	DARL-PNP	PNP DARLINGTON, 100 VOLTS/75 WATTS
EN6043	TO-220AB	DARL-NPN	NPN DARLINGTON, 60 VOLTS/75 WATTS
EN6044	TO-220AB	DARL-NPN	NPN DARLINGTON, 80 VOLTS/75 WATTS
EN6045	TO-220AB	DARL-NPN	NPN DARLINGTON, 100 VOLTS/75 WATTS
EN6050	TO-204AA	DARL-PNP	PNP DARLINGTON, 60 VOLTS/150 WATTS
EN6051	TO-204AA	DARL-PNP	PNP DARLINGTON, 80 VOLTS/150 WATTS
EN6052	TO-204AA	DARL-PNP	PNP DARLINGTON, 100 VOLTS/150 WATTS
EN6053	TO-204AA	DARL-PNP	PNP DARLINGTON, 60 VOLTS/100 WATTS
EN6054	TO-204AA	DARL-PNP	PNP DARLINGTON, 80 VOLTS/75 WATTS
EN6055	TO-204AA	DARL-NPN	NPN DARLINGTON, 60 VOLTS/100 WATTS
EN6056	TO-204AA	DARL-NPN	NPN DARLINGTON, 80 VOLTS/75 WATTS
EN6057	TO-204AA	DARL-NPN	NPN DARLINGTON, 60 VOLTS/150 WATTS
EN6058	TO-204AA	DARL-NPN	NPN DARLINGTON, 80 VOLTS/150 WATTS
EN6059	TO-204AA	DARL-NPN	NPN DARLINGTON, 100 VOLTS/150 WATTS
EN6071	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
EN6071A	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
EN6071B	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
EN6073	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
EN6073A	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
EN6073B	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
EN6075	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
EN6075A	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
EN6075B	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
EN6107	TO-220AB	PNP	PNP POWER TRANSISTOR, 70 VOLTS/40 WATTS
EN6109	TO-220AB	PNP	PNP POWER TRANSISTOR, 50 VOLTS/40 WATTS
EN6111	TO-220AB	PNP	PNP POWER TRANSISTOR, 30 VOLTS/40 WATTS
EN6121	TO-220AB	NPN	NPN POWER TRANSISTOR, 45 VOLTS/40 WATTS
EN6122	TO-220AB	NPN	NPN POWER TRANSISTOR, 60 VOLTS/40 WATTS
EN6123	TO-220AB	NPN	NPN POWER TRANSISTOR, 80 VOLTS/40 WATTS
EN6124	TO-220AB	PNP	PNP POWER TRANSISTOR, 45 VOLTS/40 WATTS
EN6125	TO-220AB	PNP	PNP POWER TRANSISTOR, 60 VOLTS/40 WATTS
EN6145	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
EN6146	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
EN6147	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
EN6160	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
EN6161	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
EN6162	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
EN6163	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=200V
EN6164	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=400V
EN6165	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=600V
EN6167	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
EN6168	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
EN6169	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
EN6170	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
EN6171	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
EN6172	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
EN6173	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
EN6174	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
EN6190	TO-39	PNP	PNP POWER TRANSISTOR, 80 VOLTS/10 WATTS
EN6191	TO-39	PNP	PNP POWER TRANSISTOR, 80 VOLTS/10 WATTS
EN6193	TO-39	PNP	PNP POWER TRANSISTOR, 100 VOLTS/10 WATTS
EN6211	TO-213AA	PNP	PNP POWER TRANSISTOR, 225 VOLTS/35 WATTS
EN6212	TO-213AA	PNP	PNP POWER TRANSISTOR, 300 VOLTS/35 WATTS
EN6213	TO-213AA	PNP	PNP POWER TRANSISTOR, 350 VOLTS/35 WATTS
EN6237	TO-225AA	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
EN6238	TO-225AA	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
EN6239	TO-225AA	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
EN6240	TO-225AA	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
EN6241	TO-225AA	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
EN6249	TO-204AA	NPN	NPN POWER TRANSISTOR,200 VOLTS/175 WATTS
EN6250	TO-204AA	NPN	NPN POWER TRANSISTOR,275 VOLTS/175 WATTS
EN6251	TO-204AA	NPN	NPN POWER TRANSISTOR,350 VOLTS/175 WATTS
EN6274	TO-204AE	NPN	NPN POWER TRANSISTOR,100 VOLTS/250 WATTS
EN6275	TO-204AE	NPN	NPN POWER TRANSISTOR,120 VOLTS/250 WATTS
EN6277	TO-204AE	NPN	NPN POWER TRANSISTOR,180 VOLTS/250 WATTS
EN6282	TO-204AA	DARL-NPN	NPN DARLINGTON, 60 VOLTS/160 WATTS
EN6283	TO-204AA	DARL-NPN	NPN DARLINGTON, 80 VOLTS/160 WATTS
EN6284	TO-204AA	DARL-NPN	NPN DARLINGTON,100 VOLTS/160 WATTS
EN6285	TO-204AA	DARL-PNP	PNP DARLINGTON, 60 VOLTS/160 WATTS
EN6286	TO-204AA	DARL-PNP	PNP DARLINGTON, 80 VOLTS/160 WATTS
EN6287	TO-204AA	DARL-PNP	PNP DARLINGTON,100 VOLTS/160 WATTS
EN6288	TO-220AB	NPN	NPN POWER TRANSISTOR, 30 VOLTS/40 WATTS
EN6292	TO-220AB	NPN	NPN POWER TRANSISTOR, 70 VOLTS/40 WATTS
EN6294	TO-213AA	DARL-NPN	NPN DARLINGTON, 60 VOLTS/50 WATTS
EN6295	TO-213AA	DARL-NPN	NPN DARLINGTON, 80 VOLTS/50 WATTS
EN6296	TO-213AA	DARL-PNP	PNP DARLINGTON, 60 VOLTS/50 WATTS
EN6297	TO-213AA	DARL-PNP	PNP DARLINGTON, 80 VOLTS/50 WATTS
EN6298	TO-213AA	DARL-PNP	PNP DARLINGTON, 60 VOLTS/100 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
EN6299	TO-213AA	DARL-PNP	PNP DARLINGTON, 80 VOLTS/75 WATTS
EN6300	TO-213AA	DARL-NPN	NPN DARLINGTON, 60 VOLTS/100 WATTS
EN6301	TO-213AA	DARL-NPN	NPN DARLINGTON, 80 VOLTS/75 WATTS
EN6303	TO-39	PNP	PNP POWER TRANSISTOR, 80 VOLTS/6 WATTS
EN6304	20-03	NPN-CASE	NPN HIGH FREQUENCY TRANSISTOR
EN6305	20-03	NPN-CASE	NPN HIGH FREQUENCY TRANSISTOR
EN6306	TO-204AA	NPN	NPN POWER TRANSISTOR,250 VOLTS/125 WATTS
EN6307	TO-204AA	NPN	NPN POWER TRANSISTOR,300 VOLTS/125 WATTS
EN6308	TO-204AA	NPN	NPN POWER TRANSISTOR,350 VOLTS/125 WATTS
EN6317	TO-213AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/90 WATTS
EN6318	TO-213AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/90 WATTS
EN6338	TO-204AA	NPN	NPN POWER TRANSISTOR,120 VOLTS/200 WATTS
EN6339	TO-204AA	NPN	NPN POWER TRANSISTOR,140 VOLTS/200 WATTS
EN6340	TO-204AA	NPN	NPN POWER TRANSISTOR,160 VOLTS/200 WATTS
EN6341	TO-204AA	NPN	NPN POWER TRANSISTOR,180 VOLTS/200 WATTS
EN6342	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
EN6342A	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
EN6343	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
EN6343A	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
EN6344	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
EN6344A	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
EN6345	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=800V
EN6345A	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=800V
EN6346	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
EN6346A	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
EN6347	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
EN6347A	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
EN6348	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
EN6348A	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
EN6349	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=800V
EN6349A	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=800V
EN6377	TO-204AE	PNP	PNP POWER TRANSISTOR, 80 VOLTS/250 WATTS
EN6378	TO-204AE	PNP	PNP POWER TRANSISTOR, 100 VOLTS/250 WATTS
EN6379	TO-204AE	PNP	PNP POWER TRANSISTOR, 120 VOLTS/250 WATTS
EN6383	TO-204AA	NPN	NPN POWER TRANSISTOR, 40 VOLTS/100 WATTS
EN6384	TO-204AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/100 WATTS
EN6385	TO-204AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/100 WATTS
EN6386	TO-220AB	DARL-NPN	NPN DARLINGTON, 40 VOLTS/65 WATTS
EN6387	TO-220AB	DARL-NPN	NPN DARLINGTON, 60 VOLTS/65 WATTS
EN6388	TO-220AB	DARL-NPN	NPN DARLINGTON, 80 VOLTS/65 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
EN6394	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
EN6395	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
EN6396	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
EN6397	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
EN6398	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
EN6399	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
EN6400	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
EN6401	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
EN6402	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
EN6403	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
EN6404	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
EN6405	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
EN6420	TO-213AA	PNP	PNP POWER TRANSISTOR,175 VOLTS/35 WATTS
EN6421	TO-213AA	PNP	PNP POWER TRANSISTOR,250 VOLTS/35 WATTS
EN6422	TO-213AA	PNP	PNP POWER TRANSISTOR,300 VOLTS/35 WATTS
EN6426	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	DARLINGTON NPN SILICON TRANSISTOR
EN6427	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	DARLINGTON NPN SILICON TRANSISTOR
EN6431	TO-18	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
EN6433	TO-18	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
EN6436	TO-204AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/200 WATTS
EN6437	TO-204AA	PNP	PNP POWER TRANSISTOR, 100 VOLTS/200 WATTS
EN6438	TO-204AA	PNP	PNP POWER TRANSISTOR, 120 VOLTS/200 WATTS
EN6486	TO-220AB	NPN	NPN POWER TRANSISTOR, 40 VOLTS/75 WATTS
EN6487	TO-220AB	NPN	NPN POWER TRANSISTOR, 60 VOLTS/75 WATTS
EN6488	TO-220AB	NPN	NPN POWER TRANSISTOR, 80 VOLTS/75 WATTS
EN6489	TO-220AB	PNP	PNP POWER TRANSISTOR, 40 VOLTS/75 WATTS
EN6490	TO-220AB	PNP	PNP POWER TRANSISTOR, 60 VOLTS/75 WATTS
EN6491	TO-220AB	PNP	PNP POWER TRANSISTOR, 80 VOLTS/75 WATTS
EN6497	TO-220AB	NPN	NPN POWER TRANSISTOR, 250 VOLTS/80 WATTS
EN6498	TO-220AB	NPN	NPN POWER TRANSISTOR, 300 VOLTS/80 WATTS
EN6504	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
EN6505	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
EN6506	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
EN6507	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
EN6508	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
EN6509	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
EN6515	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
2N6516	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN TRANSISTOR
2N6517	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN TRANSISTOR
2N6519	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP TRANSISTOR
2N6520	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP TRANSISTOR
2N6543	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/100 WATTS
2N6545	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/125 WATTS
2N6546	TO-204AA	NPN	NPN POWER TRANSISTOR,300 VOLTS/175 WATTS
2N6547	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/175 WATTS
2N6576	TO-204AA	DARL-NPN	NPN POWER TRANSISTOR, 60 VOLTS/120 WATTS
2N6577	TO-204AA	DARL-NPN	NPN POWER TRANSISTOR, 90 VOLTS/120 WATTS
2N6578	TO-204AA	DARL-NPN	NPN POWER TRANSISTOR,120 VOLTS/120 WATTS
2N6609	TO-204AA	PNP	PNP POWER TRANSISTOR,140 VOLTS/150 WATTS
2N6648	TO-204AA	PNP	PNP POWER TRANSISTOR, 40 VOLTS/100 WATTS
2N6667	TO-220AB	DARL-PNP	PNP DARLINGTON, 60 VOLTS/65 WATTS
2N6668	TO-220AB	DARL-PNP	PNP DARLINGTON, 80 VOLTS/65 WATTS
2N682	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
2N683	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
2N6833	TO-220AB	NPN	NPN POWER TRANSISTOR,450 VOLTS/80 WATTS
2N6834	TO-204AA	NPN	NPN POWER TRANSISTOR,450 VOLTS/125 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
2N6836	TO-204AA	NPN	NPN POWER TRANSISTOR,450 VOLTS/175 WATTS
2N6837	TO-204AE	NPN	NPN POWER TRANSISTOR,450 VOLTS/250 WATTS
2N685	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
2N688	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
2N690	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
2N692	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
2N697	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N7000	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL,ENHANCEMENT MODE, TMOS FET
2N7002LT1	SOT23	NTMOS	N-CHANNEL,ENHANCEMENT MODE, TMOS FET
2N706A	TO-18	NPN	SWITCHING NPN SILICON TRANSISTOR
2N718A	TO-18	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N720A	TO-18	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
2N869A	TO-18	PNP	SWITCHING PNP SILICON TRANSISTOR
2N930	TO-18	NPN	AMPLIFIER NPN SILICON TRANSISTOR
2N956	TO-18	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
1N914	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
1N915	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
1N916	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=110V
1N917	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BEZ120D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=120V
BEZ12D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
BEZ130D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=130V
BEZ13D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
BEZ140D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=140V
BEZ14D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=14V
BEZ150D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=150V
BEZ15D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
BEZ160D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=160V
BEZ16D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
BEZ170D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=170V
BEZ17D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=17V
BEZ180D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=180V
BEZ18D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
BEZ190D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=190V
BEZ19D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=19V
BEZ200D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=200V
BEZ20D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BEZ220D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=220V
BEZ22D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
BEZ240D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=240V
BEZ24D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
BEZ270D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=270V
BEZ27D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
BEZ28D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=28V
BEZ3.9D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
BEZ300D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=300V
BEZ30D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
BEZ330D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=330V
BEZ33D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
BEZ360D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=360V
BEZ36D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
BEZ39D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
BEZ4.3D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
BEZ4.7D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
BEZ400D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=400V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BEZ43D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
BEZ47D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
BEZ5.1D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
BEZ5.6D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
BEZ51D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
BEZ56D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
BEZ6.2D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
BEZ6.8D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
BEZ62D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
BEZ68D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
BEZ7.5D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
BEZ75D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
BEZ8.2D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
BEZ82D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=82V
BEZ9.1D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
BEZ91D5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=91V
BN25	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
BN25A	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
BN26	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
74N27	DIP6	OPTO-ISO	OPTOISOLATOR,TRANSISTOR OUTPUT
74N28	DIP6	OPTO-ISO	OPTOISOLATOR,TRANSISTOR OUTPUT
74N29	DIP6	OPTO-DARL	OPTOISOLATOR,DARLINGTON OUTPUT
74N29A	DIP6	OPTO-DARL	OPTOISOLATOR,DARLINGTON OUTPUT
74N30	DIP6	OPTO-DARL	OPTOISOLATOR,DARLINGTON OUTPUT
74N31	DIP6	OPTO-DARL	OPTOISOLATOR,DARLINGTON OUTPUT
74N32	DIP6	OPTO-DARL	OPTOISOLATOR,DARLINGTON OUTPUT
74N32A	DIP6	OPTO-DARL	OPTOISOLATOR,DARLINGTON OUTPUT
74N33	DIP6	OPTO-DARL	OPTOISOLATOR,DARLINGTON OUTPUT
74N35	DIP6	OPTO-ISO	OPTOISOLATOR,TRANSISTOR OUTPUT
74N36	DIP6	OPTO-ISO	OPTOISOLATOR,TRANSISTOR OUTPUT
74N37	DIP6	OPTO-ISO	OPTOISOLATOR,TRANSISTOR OUTPUT
74N38	DIP6	OPTO-ISO	OPTOISOLATOR,TRANSISTOR OUTPUT
74N38A	DIP6	OPTO-ISO	OPTOISOLATOR,TRANSISTOR OUTPUT
74N39	DIP6	OPTO-SCR	OPTOISOLATOR,SCR OUTPUT
74N40	DIP6	OPTO-SCR	OPTOISOLATOR,SCR OUTPUT
1N4148	SOT23	DIO318-STYL18	SWITCHING DIODE
1N4149	SOT23	DIO318-STYL8	SWITCHING DIODE
1N4150	SOT23	DIO318-STYL8	SWITCHING DIODE
1N4151	SOT23	DIO318-STYL9	SWITCHING DIODE
1N4152	SOT23	DIO318-STYL9	SWITCHING DIODE
1N4153	SOT23	DIO318-STYL11	DUAL SERIES SWITCHING DIODE
1N4154	SOT23	DIO318-STYL12	DUAL SWITCHING DIODE
2N2218	TO-18	NPN	NPN SILICON TRANSISTOR
2N2218A	TO-18	NPN	NPN SILICON TRANSISTOR
2N2218B	TO-18	NPN	NPN SILICON TRANSISTOR
2N2218C	TO-18	NPN	NPN SILICON TRANSISTOR
2N2219	TO-18	NPN	NPN SILICON TRANSISTOR
2N2219A	TO-18	NPN	NPN SILICON TRANSISTOR
2N2219B	TO-18	NPN	NPN SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BC108C	TO-18	NPN	NPN SILICON TRANSISTOR
BC109	TO-18	NPN	NPN SILICON TRANSISTOR
BC109A	TO-18	NPN	NPN SILICON TRANSISTOR
BC109B	TO-18	NPN	NPN SILICON TRANSISTOR
BC109C	TO-18	NPN	NPN SILICON TRANSISTOR
BC140-10	TO-39	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC140-16	TO-39	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC141-10	TO-39	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC141-16	TO-39	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC160-16	TO-39	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC161-16	TO-39	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC177	TO-18	PNP	PNP SILICON TRANSISTOR
BC177A	TO-18	PNP	PNP SILICON TRANSISTOR
BC177B	TO-18	PNP	PNP SILICON TRANSISTOR
BC182	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC182A	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC182B	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC183	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC184	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC212	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC212B	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC213	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC237	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BC237A	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC237B	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC237C	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC238	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC238B	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC238C	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC239	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC239C	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC307	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC307B	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC307C	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC308C	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC309	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC309B	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC327	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC327-16	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC327-25	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC328	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BC328-16	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC328-25	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC337	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC337-16	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC337-25	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC337-40	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC338	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC338-16	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC338-25	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC338-40	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC368	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC369	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC372	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	HIGH VOLTAGE NPN DARLINGTON TRANSISTOR
BC373	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	HIGH VOLTAGE NPN DARLINGTON TRANSISTOR
BC393	TO-18	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
BC394	TO-18	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
BC450	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
BC450A	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
BC489	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH CURRENT NPN SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BC489A	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH CURRENT NPN SILICON TRANSISTOR
BC489B	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH CURRENT NPN SILICON TRANSISTOR
BC490	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH CURRENT PNP SILICON TRANSISTOR
BC490A	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH CURRENT PNP SILICON TRANSISTOR
BC490B	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH CURRENT PNP SILICON TRANSISTOR
BC517	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	NPN DARLINGTON TRANSISTOR
BC546	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC546A	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC546B	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC547	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC547A	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC547B	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC547C	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC548	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC548A	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC548B	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC548C	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
BC549B	TO-92:TO-92A:TO-92B:TO-92C	NPN	LOW NOISE NPN SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BC549C	TO-92:TO-92A:TO-92B:TO-92C	NPN	LOW NOISE NPN SILICON TRANSISTOR
BC550B	TO-92:TO-92A:TO-92B:TO-92C	NPN	LOW NOISE NPN SILICON TRANSISTOR
BC550C	TO-92:TO-92A:TO-92B:TO-92C	NPN	LOW NOISE NPN SILICON TRANSISTOR
BC556	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC556A	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC556B	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC557	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC557A	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC557B	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC557C	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC558B	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
BC559	TO-92:TO-92A:TO-92B:TO-92C	PNP	LOW NOISE PNP SILICON TRANSISTOR
BC559B	TO-92:TO-92A:TO-92B:TO-92C	PNP	LOW NOISE PNP SILICON TRANSISTOR
BC559C	TO-92:TO-92A:TO-92B:TO-92C	PNP	LOW NOISE PNP SILICON TRANSISTOR
BC560	TO-92:TO-92A:TO-92B:TO-92C	PNP	LOW NOISE PNP SILICON TRANSISTOR
BC560B	TO-92:TO-92A:TO-92B:TO-92C	PNP	LOW NOISE PNP SILICON TRANSISTOR
BC560C	TO-92:TO-92A:TO-92B:TO-92C	PNP	LOW NOISE PNP SILICON TRANSISTOR
BC618	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	NPN DARLINGTON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BC635	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH CURRENT NPN SILICON TRANSISTOR
BC636	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH CURRENT PNP SILICON TRANSISTOR
BC637	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH CURRENT NPN SILICON TRANSISTOR
BC638	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH CURRENT PNP SILICON TRANSISTOR
BC639	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH CURRENT NPN SILICON TRANSISTOR
BC640	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH CURRENT PNP SILICON TRANSISTOR
BC807-16LT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BC807-25LT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BC807-40LT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BC817-16LT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BC817-25LT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BC817-40LT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BC846ALT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BC846BLT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BC847ALT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BC847BLT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BC847CLT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BC848ALT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BC848BLT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BC848CLT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BC856ALT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BC856BLT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BC857ALT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BC857BLT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BC857CLT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BC858ALT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BC858BLT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BC858CLT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BCW29LT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BCW30LT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BCW31LT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BCW33LT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BCW60ALT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BCW60BLT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BCW60CLT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BCW60DLT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR



**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BCW61ALT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BCW61BLT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BCW61CLT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BCW61DLT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BCW65ALT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BCW68GLT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BCW69LT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BCW70LT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BCW71LT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BCW72LT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BCX17LT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BCX18LT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
BCX19LT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BCX20LT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BCX70GLT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BCX70JLT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BCX70KLT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
BCY58-IX	TO-18	NPN	NPN SILICON TRANSISTOR
BCY58-VIII	TO-18	NPN	NPN SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BCY58-X	TO-18	NPN	NPN SILICON TRANSISTOR
BCY59-IX	TO-18	NPN	NPN SILICON TRANSISTOR
BCY59-VII	TO-18	NPN	NPN SILICON TRANSISTOR
BCY59-VIII	TO-18	NPN	NPN SILICON TRANSISTOR
BCY59-X	TO-18	NPN	NPN SILICON TRANSISTOR
BCY70	TO-18	PNP	PNP SILICON TRANSISTOR
BCY71	TO-18	PNP	PNP SILICON TRANSISTOR
BCY72	TO-18	PNP	PNP SILICON TRANSISTOR
BCY78-IX	TO-18	PNP	PNP SILICON TRANSISTOR
BCY78-VIII	TO-18	PNP	PNP SILICON TRANSISTOR
BCY79-IX	TO-18	PNP	PNP SILICON TRANSISTOR
BCY79-VII	TO-18	PNP	PNP SILICON TRANSISTOR
BCY79-VIII	TO-18	PNP	PNP SILICON TRANSISTOR
BD135	TO-225AA	NPN	NPN POWER TRANSISTOR, 45 VOLTS/10 WATTS
BD136	TO-225AA	PNP	PNP POWER TRANSISTOR, 45 VOLTS/10 WATTS
BD137	TO-225AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/10 WATTS
BD138	TO-225AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/10 WATTS
BD139	TO-225AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/10 WATTS
BD140	TO-225AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/10 WATTS
BD157	TO-225AA	NPN	NPN POWER TRANSISTOR, 250 VOLTS/20 WATTS
BD158	TO-225AA	NPN	NPN POWER TRANSISTOR, 300 VOLTS/20 WATTS
BD159	TO-225AA	NPN	NPN POWER TRANSISTOR, 350 VOLTS/20 WATTS
BD165	TO-225AA	NPN	NPN POWER TRANSISTOR, 45 VOLTS/20 WATTS
BD166	TO-225AA	PNP	PNP POWER TRANSISTOR, 45 VOLTS/20 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BD167	TO-225AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/20 WATTS
BD169	TO-225AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/20 WATTS
BD176	TO-225AA	PNP	PNP POWER TRANSISTOR, 45 VOLTS/30 WATTS
BD179	TO-225AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/30 WATTS
BD180	TO-225AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/30 WATTS
BD185	TO-225AA	NPN	NPN POWER TRANSISTOR, 30 VOLTS/40 WATTS
BD189	TO-225AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/40 WATTS
BD232	TO-225AA	NPN	NPN POWER TRANSISTOR, 300 VOLTS/20 WATTS
BD234	TO-225AA	PNP	PNP POWER TRANSISTOR, 45 VOLTS/25 WATTS
BD235	TO-225AA	NPN	NPN POWER TRANSISTOR, 45 VOLTS/25 WATTS
BD236	TO-225AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/25 WATTS
BD237	TO-225AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/25 WATTS
BD239	TO-220AB	NPN	NPN POWER TRANSISTOR, 45 VOLTS/30 WATTS
BD239A	TO-220AB	NPN	NPN POWER TRANSISTOR, 60 VOLTS/30 WATTS
BD239B	TO-220AB	NPN	NPN POWER TRANSISTOR, 80 VOLTS/30 WATTS
BD239C	TO-220AB	NPN	NPN POWER TRANSISTOR, 100 VOLTS/30 WATTS
BD240	TO-220AB	PNP	PNP POWER TRANSISTOR, 45 VOLTS/30 WATTS
BD240A	TO-220AB	PNP	PNP POWER TRANSISTOR, 60 VOLTS/30 WATTS
BD240B	TO-220AB	PNP	PNP POWER TRANSISTOR, 80 VOLTS/30 WATTS
BD240C	TO-220AB	PNP	PNP POWER TRANSISTOR, 100 VOLTS/30 WATTS
BD241	TO-220AB	NPN	NPN POWER TRANSISTOR, 45 VOLTS/40 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BD241A	TO-220AB	NPN	NPN POWER TRANSISTOR, 60 VOLTS/40 WATTS
BD241B	TO-220AB	NPN	NPN POWER TRANSISTOR, 80 VOLTS/40 WATTS
BD241C	TO-220AB	NPN	NPN POWER TRANSISTOR, 100 VOLTS/40 WATTS
BD242	TO-220AB	PNP	PNP POWER TRANSISTOR, 45 VOLTS/40 WATTS
BD242A	TO-220AB	PNP	PNP POWER TRANSISTOR, 60 VOLTS/40 WATTS
BD242B	TO-220AB	PNP	PNP POWER TRANSISTOR, 80 VOLTS/40 WATTS
BD242C	TO-220AB	PNP	PNP POWER TRANSISTOR, 100 VOLTS/40 WATTS
BD243	TO-220AB	NPN	NPN POWER TRANSISTOR, 45 VOLTS/65 WATTS
BD243A	TO-220AB	NPN	NPN POWER TRANSISTOR, 60 VOLTS/65 WATTS
BD243B	TO-220AB	NPN	NPN POWER TRANSISTOR, 80 VOLTS/65 WATTS
BD243C	TO-220AB	NPN	NPN POWER TRANSISTOR, 100 VOLTS/65 WATTS
BD244	TO-220AB	PNP	PNP POWER TRANSISTOR, 45 VOLTS/65 WATTS
BD244A	TO-220AB	PNP	PNP POWER TRANSISTOR, 60 VOLTS/65 WATTS
BD244B	TO-220AB	PNP	PNP POWER TRANSISTOR, 80 VOLTS/65 WATTS
BD244C	TO-220AB	PNP	PNP POWER TRANSISTOR, 100 VOLTS/65 WATTS
BD318	TO-204AA	PNP	PNP POWER TRANSISTOR, 100 VOLTS/200 WATTS
BD437	TO-225AA	NPN	NPN POWER TRANSISTOR, 45 VOLTS/36 WATTS
BD438	TO-225AA	PNP	PNP POWER TRANSISTOR, 45 VOLTS/36 WATTS
BD440	TO-225AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/36 WATTS
BD441	TO-225AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/36 WATTS
BD442	TO-225AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/36 WATTS
BD675	TO-225AA	DARL-NPN	NPN DARLINGTON, 45 VOLTS/40 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BD675A	TO-225AA	DARL-NPN	NPN DARLINGTON, 45 VOLTS/40 WATTS
BD676	TO-225AA	DARL-PNP	PNP DARLINGTON,45 VOLTS/40 WATTS
BD676A	TO-225AA	DARL-PNP	PNP DARLINGTON,45 VOLTS/40 WATTS
BD677	TO-225AA	DARL-NPN	NPN DARLINGTON, 60 VOLTS/40 WATTS
BD677A	TO-225AA	DARL-NPN	NPN DARLINGTON, 60 VOLTS/40 WATTS
BD678	TO-225AA	DARL-PNP	PNP DARLINGTON,60 VOLTS/40 WATTS
BD678A	TO-225AA	DARL-PNP	PNP DARLINGTON,60 VOLTS/40 WATTS
BD679	TO-225AA	DARL-NPN	NPN DARLINGTON, 80 VOLTS/40 WATTS
BD679A	TO-225AA	DARL-NPN	NPN DARLINGTON, 80 VOLTS/40 WATTS
BD680	TO-225AA	DARL-PNP	PNP DARLINGTON,80 VOLTS/40 WATTS
BD680A	TO-225AA	DARL-PNP	PNP DARLINGTON,80 VOLTS/40 WATTS
BD681	TO-225AA	DARL-NPN	NPN DARLINGTON, 100 VOLTS/40 WATTS
BD682	TO-225AA	DARL-PNP	PNP DARLINGTON,100 VOLTS/40 WATTS
BD776	TO-225AA	DARL-PNP	PNP DARLINGTON, 45 VOLTS/15 WATTS
BD777	TO-225AA	DARL-NPN	NPN DARLINGTON, 45 VOLTS/15 WATTS
BD778	TO-225AA	DARL-PNP	PNP DARLINGTON, 60 VOLTS/15 WATTS
BD779	TO-225AA	DARL-NPN	NPN DARLINGTON, 45 VOLTS/15 WATTS
BD780	TO-225AA	DARL-PNP	PNP DARLINGTON, 80 VOLTS/15 WATTS
BD785	TO-225AA	NPN	NPN POWER TRANSISTOR, 45 VOLTS/15 WATTS
BD786	TO-225AA	PNP	PNP POWER TRANSISTOR, 45 VOLTS/15 WATTS
BD787	TO-225AA	NPN	NPN POWER TRANSISTOR, 60 VOLTS/15 WATTS
BD788	TO-225AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/15 WATTS
BD789	TO-225AA	NPN	NPN POWER TRANSISTOR, 80 VOLTS/15 WATTS
BD790	TO-225AA	PNP	PNP POWER TRANSISTOR, 80 VOLTS/15 WATTS
BD791	TO-225AA	NPN	NPN POWER TRANSISTOR, 100 VOLTS/15 WATTS
BD792	TO-225AA	PNP	PNP POWER TRANSISTOR, 100 VOLTS/15 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BD795	TO-220AB	NPN	NPN POWER TRANSISTOR, 45 VOLTS/65 WATTS
BD796	TO-220AB	PNP	PNP POWER TRANSISTOR, 45 VOLTS/65 WATTS
BD797	TO-220AB	NPN	NPN POWER TRANSISTOR, 60 VOLTS/65 WATTS
BD798	TO-220AB	PNP	PNP POWER TRANSISTOR, 60 VOLTS/65 WATTS
BD799	TO-220AB	NPN	NPN POWER TRANSISTOR, 80 VOLTS/65 WATTS
BD800	TO-220AB	PNP	PNP POWER TRANSISTOR, 80 VOLTS/65 WATTS
BD801	TO-220AB	NPN	NPN POWER TRANSISTOR, 100 VOLTS/65 WATTS
BD802	TO-220AB	PNP	PNP POWER TRANSISTOR, 100 VOLTS/65 WATTS
BD805	TO-220AB	NPN	NPN POWER TRANSISTOR, 45 VOLTS/90 WATTS
BD806	TO-220AB	PNP	PNP POWER TRANSISTOR, 45 VOLTS/90 WATTS
BD807	TO-220AB	NPN	NPN POWER TRANSISTOR, 60 VOLTS/90 WATTS
BD808	TO-220AB	PNP	PNP POWER TRANSISTOR, 60 VOLTS/90 WATTS
BD809	TO-220AB	NPN	NPN POWER TRANSISTOR, 80 VOLTS/90 WATTS
BD810	TO-220AB	PNP	PNP POWER TRANSISTOR, 80 VOLTS/90 WATTS
BD895	TO-220AB	DARL-NPN	NPN DARLINGTON, 45 VOLTS/70 WATTS
BD895A	TO-220AB	DARL-NPN	NPN DARLINGTON, 45 VOLTS/70 WATTS
BD896	TO-220AB	DARL-PNP	PNP DARLINGTON, 45 VOLTS/70 WATTS
BD896A	TO-220AB	DARL-PNP	PNP DARLINGTON, 45 VOLTS/70 WATTS
BD897	TO-220AB	DARL-NPN	NPN DARLINGTON, 60 VOLTS/70 WATTS
BD897A	TO-220AB	DARL-NPN	NPN DARLINGTON, 60 VOLTS/70 WATTS
BD898	TO-220AB	DARL-PNP	PNP DARLINGTON, 60 VOLTS/70 WATTS
BD898A	TO-220AB	DARL-PNP	PNP DARLINGTON, 60 VOLTS/70 WATTS
BD899	TO-220AB	DARL-NPN	NPN DARLINGTON, 80 VOLTS/70 WATTS
BD899A	TO-220AB	DARL-NPN	NPN DARLINGTON, 80 VOLTS/70 WATTS
BD900	TO-220AB	DARL-PNP	PNP DARLINGTON, 80 VOLTS/70 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BD900A	TO-220AB	DARL-PNP	PNP DARLINGTON, 80 VOLTS/70 WATTS
BD901	TO-220AB	DARL-NPN	NPN DARLINGTON, 100 VOLTS/70 WATTS
BD902	TO-220AB	DARL-PNP	PNP DARLINGTON, 100 VOLTS/70 WATTS
BDB01C	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT AMPLIFIER NPN SILICON TRANSISTOR
BDB01D	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT AMPLIFIER NPN SILICON TRANSISTOR
BDB02C	TO-92:TO-92A:TO-92B:TO-92C	PNP	ONE WATT AMPLIFIER PNP SILICON TRANSISTOR
BDB02D	TO-92:TO-92A:TO-92B:TO-92C	PNP	ONE WATT AMPLIFIER PNP SILICON TRANSISTOR
BDC01D	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT AMPLIFIER NPN SILICON TRANSISTOR
BDC02D	TO-92:TO-92A:TO-92B:TO-92C	PNP	ONE WATT AMPLIFIER PNP SILICON TRANSISTOR
BDC05	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT HIGH VOLTAGE NPN SILICON TRANSISTOR
BDC06	TO-92:TO-92A:TO-92B:TO-92C	PNP	ONE WATT HIGH VOLTAGE PNP SILICON TRANSISTOR
BDV64	TO-218	DARL-PNP	PNP DARLINGTON, 60 VOLTS/125 WATTS
BDV64A	TO-218	DARL-PNP	PNP DARLINGTON, 80 VOLTS/125 WATTS
BDV64B	TO-218	DARL-PNP	PNP DARLINGTON, 100 VOLTS/125 WATTS
BDV64C	TO-218	DARL-PNP	PNP DARLINGTON, 120 VOLTS/125 WATTS
BDV65	TO-218	DARL-NPN	NPN DARLINGTON, 60 VOLTS/125 WATTS
BDV65A	TO-218	DARL-NPN	NPN DARLINGTON, 80 VOLTS/125 WATTS
BDV65B	TO-218	DARL-NPN	NPN DARLINGTON, 100 VOLTS/125 WATTS
BDV65C	TO-218	DARL-NPN	NPN DARLINGTON, 120 VOLTS/125 WATTS
BDW39	TO-220AB	DARL-NPN	NPN DARLINGTON, 45 VOLTS/85 WATTS
BDW40	TO-220AB	DARL-NPN	NPN DARLINGTON, 60 VOLTS/85 WATTS
BDW41	TO-220AB	DARL-NPN	NPN DARLINGTON, 80 VOLTS/85 WATTS
BDW42	TO-220AB	DARL-NPN	NPN DARLINGTON, 100 VOLTS/85 WATTS
BDW43	TO-220AB	DARL-NPN	NPN DARLINGTON, 120 VOLTS/85 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BDW44	TO-220AB	DARL-PNP	PNP DARLINGTON, 45 VOLTS/85 WATTS
BDW45	TO-220AB	DARL-PNP	PNP DARLINGTON, 60 VOLTS/85 WATTS
BDW46	TO-220AB	DARL-PNP	PNP DARLINGTON, 80 VOLTS/85 WATTS
BDW47	TO-220AB	DARL-PNP	PNP DARLINGTON, 100 VOLTS/85 WATTS
BDW48	TO-220AB	DARL-PNP	PNP DARLINGTON, 120 VOLTS/85 WATTS
BDX33	TO-220AB	DARL-NPN	NPN DARLINGTON, 45 VOLTS/70 WATTS
BDX33A	TO-220AB	DARL-NPN	NPN DARLINGTON, 60 VOLTS/70 WATTS
BDX33B	TO-220AB	DARL-NPN	NPN DARLINGTON, 80 VOLTS/70 WATTS
BDX33C	TO-220AB	DARL-NPN	NPN DARLINGTON, 100 VOLTS/70 WATTS
BDX34	TO-220AB	DARL-PNP	PNP DARLINGTON, 45 VOLTS/70 WATTS
BDX34A	TO-220AB	DARL-PNP	PNP DARLINGTON, 60 VOLTS/70 WATTS
BDX34B	TO-220AB	DARL-PNP	PNP DARLINGTON, 80 VOLTS/70 WATTS
BDX34C	TO-220AB	DARL-PNP	PNP DARLINGTON, 100 VOLTS/70 WATTS
BDX53	TO-220AB	DARL-NPN	NPN DARLINGTON, 45 VOLTS/65 WATTS
BDX53A	TO-220AB	DARL-NPN	NPN DARLINGTON, 80 VOLTS/65 WATTS
BDX53B	TO-220AB	DARL-NPN	NPN DARLINGTON, 80 VOLTS/65 WATTS
BDX53C	TO-220AB	DARL-NPN	NPN DARLINGTON, 100 VOLTS/65 WATTS
BDX54	TO-220AB	DARL-PNP	PNP DARLINGTON, 45 VOLTS/65 WATTS
BDX54A	TO-220AB	DARL-PNP	PNP DARLINGTON, 60 VOLTS/65 WATTS
BDX54B	TO-220AB	DARL-PNP	PNP DARLINGTON, 80 VOLTS/65 WATTS
BDX54C	TO-220AB	DARL-PNP	PNP DARLINGTON, 100 VOLTS/65 WATTS
BF199	TO-92:TO-92A:TO-92B:TO-92C	NPN	RF NPN SILICON TRANSISTOR
BF224	TO-92:TO-92A:TO-92B:TO-92C	NPN	RF NPN SILICON TRANSISTOR
BF240	TO-92:TO-92A:TO-92B:TO-92C	NPN	AM/FM NPN SILICON TRANSISTOR
BF244	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
BF244A	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BF244B	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
BF244C	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
BF245	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
BF245A	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
BF245B	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
BF245C	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
BF246	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
BF246A	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
BF246B	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
BF246C	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
BF247	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
BF247A	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
BF247B	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
BF247C	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
BF256	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
BF256B	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
BF256C	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
BF258	TO-39	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
BF259	TO-39	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BF374	TO-92:TO-92A:TO-92B:TO-92C	NPN	VHF NPN SILICON TRANSISTOR
BF391	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
BF392	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
BF393	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
BF420	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
BF421	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
BF422	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
BF423	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
BF491	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
BF492	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
BF493	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
BF493S	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
BF720T1	SOT223	N318E-STYL1	SURFACE MOUNT NPN SILICON TRANSISTOR
BF721T1	SOT223	P318E-STYL1	SURFACE MOUNT PNP SILICON TRANSISTOR
BF844	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE NPN SILICON TRANSISTOR
BF959	TO-92:TO-92A:TO-92B:TO-92C	PNP	VHF NPN SILICON TRANSISTOR
BFR30LT1	SOT23	NFET	N-CHANNEL,DEPLETION MODE, AMPLIFIER JFET
BFR31LT1	SOT23	NFET	N-CHANNEL,DEPLETION MODE, AMPLIFIER JFET
BFR92	SOT23	NPN	NPN RF TRANSISTOR

Table 8-1. Motor-tx Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
BFR92A	SOT23	NPN	NPN RF TRANSISTOR
BFR93	SOT23	NPN	NPN RF TRANSISTOR
BFR93A	SOT23	NPN	NPN RF TRANSISTOR
BFW43	TO-18	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
BFX89	20-03	NPN-CASE	NPN HIGH FREQUENCY TRANSISTOR
BFY90	20-03	NPN-CASE	NPN HIGH FREQUENCY TRANSISTOR
BRX44	TO-92	SCR	SCR,VRRM=30V
BRX45	TO-92	SCR	SCR,VRRM=60V
BRX46	TO-92	SCR	SCR,VRRM=100V
BRX47	TO-92	SCR	SCR,VRRM=200V
BRX48	TO-92	SCR	SCR,VRRM=300V
BRX49	TO-92	SCR	SCR,VRRM=400V
BRY55-100	TO-92	SCR	SCR,VRRM=100V
BRY55-200	TO-92	SCR	SCR,VRRM=200V
BRY55-30	TO-92	SCR	SCR,VRRM=30V
BRY55-300	TO-92	SCR	SCR,VRRM=300V
BRY55-400	TO-92	SCR	SCR,VRRM=400V
BRY55-500	TO-92	SCR	SCR,VRRM=500V
BRY55-60	TO-92	SCR	SCR,VRRM=60V
BRY55-600	TO-92	SCR	SCR,VRRM=600V
BS107	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL,ENHANCEMENT MODE, SWITCHING TMOS FET
BS107A	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL,ENHANCEMENT MODE, SWITCHING TMOS FET
BS170	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL,ENHANCEMENT MODE, SWITCHING TMOS FET
BSP16T1	SOT223	P318E-STYL1	HIGH VOLTAGE SURFACE MOUNT PNP SILICON TRANSISTOR
BSS123LT1	SOT23	NTMOS	N-CHANNEL,ENHANCEMENT MODE, TMOS FET
BSS63LT1	SOT23	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
3SS64LT1	SOT23	NPN	DRIVER NPN SILICON TRANSISTOR
3SS71	TO-18	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
3SS72	TO-18	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
3SS73	TO-18	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
3SS74	TO-18	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
3SS75	TO-18	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
3SS76	TO-18	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
3SS78	TO-39	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
3SS89	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL, ENHANCEMENT MODE, TMOS FET
3SV16-10	TO-39	PNP	AMPLIFIER PNP SILICON TRANSISTOR
3SV52LT1	SOT23	NPN	SWITCHING NPN SILICON TRANSISTOR
3SX20	TO-18	NPN	NPN SILICON TRANSISTOR
BU207	TO-204AA	NPN	NPN POWER TRANSISTOR, 600 VOLTS/12.5 WATTS
BU208	TO-204AA	NPN	NPN POWER TRANSISTOR, 700 VOLTS/12.5 WATTS
BU208A	TO-204AA	NPN	NPN POWER TRANSISTOR, 700 VOLTS/12.5 WATTS
BU208D	TO-204AA	NPN	NPN POWER TRANSISTOR, 700 VOLTS/12.5 WATTS
BU323	TO-204AA	DARL-NPN	NPN DARLINGTON, 350 VOLTS/175 WATTS
BU323A	TO-204AA	DARL-NPN	NPN DARLINGTON, 400 VOLTS/175 WATTS
BU323AP	TO-218	DARL-NPN	NPN DARLINGTON, 250 VOLTS/125 WATTS
BU323P	TO-218	DARL-NPN	NPN DARLINGTON, 200 VOLTS/125 WATTS
BU326	TO-204AA	NPN	NPN POWER TRANSISTOR, 375 VOLTS/90 WATTS
BU326A	TO-204AA	NPN	NPN POWER TRANSISTOR, 400 VOLTS/90 WATTS
BU406	TO-220AB	NPN	NPN POWER TRANSISTOR, 200 VOLTS/60 WATTS
BU406D	TO-220AB	NPN	NPN POWER TRANSISTOR, 200 VOLTS/60 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BU407	TO-220AB	NPN	NPN POWER TRANSISTOR,150 VOLTS/60 WATTS
BU407D	TO-220AB	NPN	NPN POWER TRANSISTOR,150 VOLTS/60 WATTS
BU426	TO-218	NPN	NPN POWER TRANSISTOR,375 VOLTS/113 WATTS
BU426A	TO-218	NPN	NPN POWER TRANSISTOR,400 VOLTS/113 WATTS
BU508	TO-218	NPN	NPN POWER TRANSISTOR,700 VOLTS/125 WATTS
BU508A	TO-218	NPN	NPN POWER TRANSISTOR,700 VOLTS/125 WATTS
BU508AD	TO-218	NPN	NPN POWER TRANSISTOR,700 VOLTS/125 WATTS
BU508D	TO-218	NPN	NPN POWER TRANSISTOR,700 VOLTS/125 WATTS
BU522	TO-220AB	DARL-NPN	NPN DARLINGTON,375 VOLTS/75 WATTS
BU522A	TO-220AB	DARL-NPN	NPN DARLINGTON,425 VOLTS/75 WATTS
BU522B	TO-220AB	DARL-NPN	NPN DARLINGTON,450 VOLTS/75 WATTS
BU806	TO-220AB	DARL-NPN	NPN DARLINGTON,200 VOLTS/60 WATTS
BU807	TO-220AB	DARL-NPN	NPN DARLINGTON,150 VOLTS/60 WATTS
BUS50	TO-204AA	NPN	NPN POWER TRANSISTOR,125 VOLTS/350 WATTS
BUS51	TO-204AA	NPN	NPN POWER TRANSISTOR,200 VOLTS/350 WATTS
BUS98	TO-204AE	NPN	NPN POWER TRANSISTOR,400 VOLTS/250 WATTS
BUS98A	TO-204AE	NPN	NPN POWER TRANSISTOR,450 VOLTS/250 WATTS
BUT13	TO-204AA	DARL-NPN	NPN DARLINGTON,600 VOLTS/175 WATTS
BUT14	TO-204AA	DARL-NPN	NPN DARLINGTON,850 VOLTS/175 WATTS
BUT15	TO-204AA	DARL-NPN	NPN DARLINGTON,1000 VOLTS/175 WATTS
BUT33	TO-204AE	DARL-NPN	NPN DARLINGTON,600 VOLTS/250 WATTS
BUT34	TO-204AE	DARL-NPN	NPN DARLINGTON,850 VOLTS/250 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BUT35	TO-204AE	DARL-NPN	NPN DARLINGTON,1000 VOLTS/250 WATTS
BUT50P	TO-218	DARL-NPN	NPN DARLINGTON,500 VOLTS/100 WATTS
BUT51P	TO-218	DARL-NPN	NPN DARLINGTON,500 VOLTS/100 WATTS
BUV10N	TO-204AA	NPN	NPN POWER TRANSISTOR,125 VOLTS/175 WATTS
BUV11	TO-204AA	NPN	NPN POWER TRANSISTOR,200 VOLTS/150 WATTS
BUV11N	TO-204AA	NPN	NPN POWER TRANSISTOR,160 VOLTS/150 WATTS
BUV12	TO-204AA	NPN	NPN POWER TRANSISTOR,250 VOLTS/150 WATTS
BUV20	TO-204AE	NPN	NPN POWER TRANSISTOR,125 VOLTS/250 WATTS
BUV21	TO-204AE	NPN	NPN POWER TRANSISTOR,200 VOLTS/250 WATTS
BUV21N	TO-204AE	NPN	NPN POWER TRANSISTOR,160 VOLTS/250 WATTS
BUV22	TO-204AE	NPN	NPN POWER TRANSISTOR,250 VOLTS/250 WATTS
BUV23	TO-204AE	NPN	NPN POWER TRANSISTOR,325 VOLTS/250 WATTS
BUV24	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/250 WATTS
BUV47	TO-218	NPN	NPN POWER TRANSISTOR,400 VOLTS/128 WATTS
BUV47A	TO-218	NPN	NPN POWER TRANSISTOR,450 VOLTS/128 WATTS
BUV48	TO-218	NPN	NPN POWER TRANSISTOR,400 VOLTS/150 WATTS
BUV48A	TO-218	NPN	NPN POWER TRANSISTOR,450 VOLTS/150 WATTS
BUW11	TO-218AC	NPN	NPN POWER TRANSISTOR,400 VOLTS/125 WATTS
BUW11A	TO-218AC	NPN	NPN POWER TRANSISTOR,450 VOLTS/125 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BUX12	TO-218AC	NPN	NPN POWER TRANSISTOR,400 VOLTS/125 WATTS
BUX12A	TO-218AC	NPN	NPN POWER TRANSISTOR,450 VOLTS/125 WATTS
BUX13	TO-204AA	NPN	NPN POWER TRANSISTOR,325 VOLTS/150 WATTS
BUX39	TO-204AA	NPN	NPN POWER TRANSISTOR, 90 VOLTS/120 WATTS
BUX40	TO-204AA	NPN	NPN POWER TRANSISTOR,125 VOLTS/120 WATTS
BUX41	TO-204AA	NPN	NPN POWER TRANSISTOR,200 VOLTS/120 WATTS
BUX41N	TO-204AA	NPN	NPN POWER TRANSISTOR,160 VOLTS/120 WATTS
BUX47	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/150 WATTS
BUX47A	TO-204AA	NPN	NPN POWER TRANSISTOR,450 VOLTS/150 WATTS
BUX48	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/175 WATTS
BUX48A	TO-204AA	NPN	NPN POWER TRANSISTOR,450 VOLTS/175 WATTS
BUX84	TO-220AB	NPN	NPN POWER TRANSISTOR,400 VOLTS/50 WATTS
BUX85	TO-220AB	NPN	NPN POWER TRANSISTOR,450 VOLTS/50 WATTS
BZV55C10	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
BZV55C11	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
BZV55C12	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
BZV55C13	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
BZV55C15	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BZV55C16	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
BZV55C18	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
BZV55C20	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
BZV55C22	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
BZV55C24	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
BZV55C27	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
BZV55C2V4	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.4V
BZV55C2V7	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V
BZV55C30	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
BZV55C33	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
BZV55C36	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
BZV55C39	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
BZV55C3V0	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
BZV55C3V3	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
BZV55C3V6	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
BZV55C3V9	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
BZV55C43	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
BZV55C47	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BZV55C4V3	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
BZV55C4V7	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
BZV55C51	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
BZV55C56	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
BZV55C5V1	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
BZV55C5V6	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
BZV55C6V2	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
BZV55C6V8	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
BZV55C7V5	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
BZV55C8V2	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
BZV55C9V1	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
BZX55C10	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
BZX55C11	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
BZX55C12	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
BZX55C13	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
BZX55C15	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
BZX55C16	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
BZX55C18	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BZX55C20	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
BZX55C22	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
BZX55C24	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
BZX55C27	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
BZX55C2V4	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.4V
BZX55C2V7	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V
BZX55C30	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
BZX55C33	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
BZX55C36	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
BZX55C39	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
BZX55C3V0	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
BZX55C3V3	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
BZX55C3V6	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
BZX55C3V9	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
BZX55C43	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
BZX55C47	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
BZX55C4V3	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
BZX55C4V7	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BZX55C51	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
BZX55C56	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
BZX55C5V1	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
BZX55C5V6	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
BZX55C62	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
BZX55C68	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
BZX55C6V2	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
BZX55C6V8	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
BZX55C75	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
BZX55C7V5	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
BZX55C82	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=82V
BZX55C8V2	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
BZX55C91	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=91V
BZX55C9V1	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
BZX783C18	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
BZX79C10	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
BZX79C100	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
BZX79C11	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
BZX79C110	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=110V
BZX79C12	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
BZX79C120	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=120V
BZX79C13	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
BZX79C130	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=130V
BZX79C15	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
BZX79C150	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=150V
BZX79C16	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
BZX79C160	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=160V
BZX79C18	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
BZX79C180	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=180V
BZX79C20	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
BZX79C200	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=200V
BZX79C22	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
BZX79C24	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
BZX79C27	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
BZX79C2V4	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.4V
BZX79C2V7	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BZX79C30	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
BZX79C33	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
BZX79C36	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
BZX79C39	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
BZX79C3V0	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
BZX79C3V3	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
BZX79C3V6	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
BZX79C3V9	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
BZX79C43	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
BZX79C47	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
BZX79C4V3	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
BZX79C4V7	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
BZX79C51	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
BZX79C56	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
BZX79C5V1	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
BZX79C5V6	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
BZX79C62	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
BZX79C68	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BZX79C6V2	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
BZX79C6V8	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
BZX79C75	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
BZX79C7V5	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
BZX79C82	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
BZX79C8V2	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
BZX79C91	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
BZX79C9V1	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
BZX83C10	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
BZX83C11	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
BZX83C12	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
BZX83C13	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
BZX83C15	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
BZX83C16	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
BZX83C18	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
BZX83C20	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
BZX83C22	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
BZX83C24	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V

Table 8-1. Motor-tx Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
BZX83C27	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
BZX83C2V7	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V
BZX83C30	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
BZX83C33	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
BZX83C3V0	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
BZX83C3V3	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
BZX83C3V6	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
BZX83C3V9	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
BZX83C4V3	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
BZX83C4V7	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
BZX83C5V1	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
BZX83C5V6	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
BZX83C6V2	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
BZX83C6V8	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
BZX83C7V5	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
BZX83C8V2	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
BZX83C9V1	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
BZX84C10L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=10V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BZX84C11L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
BZX84C12L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
BZX84C13L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
BZX84C15L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
BZX84C16L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
BZX84C18L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
BZX84C20L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
BZX84C22L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
BZX84C24L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
BZX84C27L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
BZX84C2V4L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=2.4V
BZX84C2V7L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V
BZX84C30L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
BZX84C33L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
BZX84C36L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
BZX84C39L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
BZX84C3V0L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
BZX84C3V3L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BZX84C3V6L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
BZX84C3V9L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
BZX84C43L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
BZX84C47L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
BZX84C4V3L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
BZX84C4V7L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
BZX84C51L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
BZX84C56L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
BZX84C5V1L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
BZX84C5V6L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
BZX84C62L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
BZX84C68L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
BZX84C6V2L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
BZX84C6V8L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
BZX84C75L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
BZX84C7V5L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
BZX84C8V2L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
BZX84C9V1L	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BZX85C10	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
BZX85C100	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
BZX85C11	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
BZX85C12	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
BZX85C13	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
BZX85C15	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
BZX85C16	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
BZX85C18	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
BZX85C20	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
BZX85C22	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
BZX85C24	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
BZX85C27	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
BZX85C30	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
BZX85C33	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
BZX85C36	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
BZX85C39	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
BZX85C3V3	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
BZX85C3V6	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BZX85C3V9	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
BZX85C43	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
BZX85C47	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
BZX85C4V3	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
BZX85C4V7	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
BZX85C51	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
BZX85C56	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
BZX85C5V1	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
BZX85C5V6	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
BZX85C62	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
BZX85C68	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
BZX85C6V2	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
BZX85C6V8	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
BZX85C75	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
BZX85C7V5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
BZX85C82	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=82V
BZX85C8V2	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
BZX85C91	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=91V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
BZX85C9V1	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
C106A	TO-225AA	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
C106B	TO-225AA	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
C106D	TO-225AA	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
C106F	TO-225AA	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
C106M	TO-225AA	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
C122A1	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
C122B1	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
C122D1	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
C122F1	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
C122M1	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
C122N1	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
C205A	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
C205B	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
C205D	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
C205Y	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=30V
C205YY	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=60V
C228A3	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
C228B3	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
C228D3	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
C228M3	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
C35A	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
C35B	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
C35D	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
C35F	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
C35M	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
C35N	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
CNY17-1	DIP6	OPTO-ISO	OPTOISOLATOR,TRANSISTOR OUTPUT
CNY17-2	DIP6	OPTO-ISO	OPTOISOLATOR,TRANSISTOR OUTPUT
CNY17-3	DIP6	OPTO-ISO	OPTOISOLATOR,TRANSISTOR OUTPUT
CV12253	TO-39	NPN	AMPLIFIER NPN SILICON TRANSISTOR
CV9507	TO-39	PNP	SWITCHING PNP SILICON TRANSISTOR
D44E	TO-220AB	DARL-NPN	NPN DARLINGTON, 40-80 VOLTS/50 WATTS
D44H	TO-220AB	NPN	NPN POWER TRANSISTOR,30-80 VOLTS/50 WATTS
D44VH	TO-220AB	NPN	NPN POWER TRANSISTOR,30-45-60-80 VOLTS/83 WATTS
D45H	TO-220AB	PNP	NPN POWER TRANSISTOR,30-80 VOLTS/50 WATTS
D45VH	TO-220AB	PNP	NPN POWER TRANSISTOR,30-45-60-80 VOLTS/83 WATTS
H11A1	DIP6	OPTO-ISO	OPTOISOLATOR,TRANSISTOR OUTPUT
H11A2	DIP6	OPTO-ISO	OPTOISOLATOR,TRANSISTOR OUTPUT

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
H11A3	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
H11A4	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
H11A5	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
H11AA1	DIP6	OPTO-AC	OPTOISOLATOR, AC INPUT/TRANSISTOR OUTPUT
H11AA2	DIP6	OPTO-AC	OPTOISOLATOR, AC INPUT/TRANSISTOR OUTPUT
H11AA3	DIP6	OPTO-AC	OPTOISOLATOR, AC INPUT/TRANSISTOR OUTPUT
H11AA4	DIP6	OPTO-AC	OPTOISOLATOR, AC INPUT/TRANSISTOR OUTPUT
H11AV1	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
H11AV1A	DIP6-400	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
H11AV2	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
H11AV2A	DIP6-400	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
H11AV3	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
H11AV3A	DIP6-400	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
H11B1	DIP6	OPTO-DARL	OPTOISOLATOR, DARLINGTON OUTPUT
H11B2	DIP6	OPTO-DARL	OPTOISOLATOR, DARLINGTON OUTPUT
H11B3	DIP6	OPTO-DARL	OPTOISOLATOR, DARLINGTON OUTPUT
H11C1	DIP6	OPTO-SCR	OPTOISOLATOR, SCR OUTPUT
H11C2	DIP6	OPTO-SCR	OPTOISOLATOR, SCR OUTPUT
H11C3	DIP6	OPTO-SCR	OPTOISOLATOR, SCR OUTPUT
H11C4	DIP6	OPTO-SCR	OPTOISOLATOR, SCR OUTPUT
H11C5	DIP6	OPTO-SCR	OPTOISOLATOR, SCR OUTPUT
H11C6	DIP6	OPTO-SCR	OPTOISOLATOR, SCR OUTPUT
H11D1	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
H11D2	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
H11D3	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
H11D4	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
H11G1	DIP6	OPTO-DARL-R	OPTOISOLATOR, DARLINGTON OUTPUT

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
H11G2	DIP6	OPTO-DARL-R	OPTOISOLATOR, DARLINGTON OUTPUT
H11G3	DIP6	OPTO-DARL-R	OPTOISOLATOR, DARLINGTON OUTPUT
H11L1	DIP6	OPTO-LOG	OPTOISOLATOR, LOGIC OUTPUT
H11L2	DIP6	OPTO-LOG	OPTOISOLATOR, LOGIC OUTPUT
H21A1	354A-01	OPTO-ISO-O	OPTICAL SWITCH, TRANSISTOR OUTPUT
H21A2	354A-01	OPTO-ISO-O	OPTICAL SWITCH, TRANSISTOR OUTPUT
H21A3	354A-01	OPTO-ISO-O	OPTICAL SWITCH, TRANSISTOR OUTPUT
H21B1	354A-01	OPTO-DARL-O	OPTICAL SWITCH, DARLINGTON OUTPUT
H21B2	354A-01	OPTO-DARL-O	OPTICAL SWITCH, DARLINGTON OUTPUT
H21B3	354A-01	OPTO-DARL-O	OPTICAL SWITCH, DARLINGTON OUTPUT
H22A1	354-02	OPTO-ISO-O	OPTICAL SWITCH, TRANSISTOR OUTPUT
H22A2	354-02	OPTO-ISO-O	OPTICAL SWITCH, TRANSISTOR OUTPUT
H22A3	354-02	OPTO-ISO-O	OPTICAL SWITCH, TRANSISTOR OUTPUT
H22B1	354-02	OPTO-DARL-O	OPTICAL SWITCH, DARLINGTON OUTPUT
H22B2	354-02	OPTO-DARL-O	OPTICAL SWITCH, DARLINGTON OUTPUT
H22B3	354-02	OPTO-DARL-O	OPTICAL SWITCH, DARLINGTON OUTPUT
109	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, GENERAL PURPOSE JFET
110	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, GENERAL PURPOSE JFET
111	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, CHOPPER JFET
112	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, CHOPPER JFET
113	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, CHOPPER JFET
174	TO-92:TO-92A:TO-92B:TO-92C	PFET	P-CHANNEL,DEPLETION MODE, CHOPPER JFET
175	TO-92:TO-92A:TO-92B:TO-92C	PFET	P-CHANNEL,DEPLETION MODE, CHOPPER JFET
176	TO-92:TO-92A:TO-92B:TO-92C	PFET	P-CHANNEL,DEPLETION MODE, CHOPPER JFET

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
177	TO-92:TO-92A:TO-92B:TO-92C	PFET	P-CHANNEL,DEPLETION MODE, CHOPPER JFET
202	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, LOW FREQ./LOW NOISE JFET
203	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, LOW FREQ./LOW NOISE JFET
270	TO-92:TO-92A:TO-92B:TO-92C	PFET	P-CHANNEL,DEPLETION MODE, CHOPPER JFET
300	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, HIGH FREQ AMPLIFIER JFET
304	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, HIGH FREQ AMPLIFIER JFET
305	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, HIGH FREQ AMPLIFIER JFET
308	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
309	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
310	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
LT1001A	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
LT1839	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
LT3046	26-03	NPN	NPN HIGH FREQUENCY TRANSISTOR
LT5839	TO-39	PNP	PNP HIGH FREQUENCY/HIGH VOLTAGE TRANSISTOR
M1MA151AT1	318D-03	DIO318D-STYL4	SURFACE MOUNT, SWITCHING DIODE
M1MA151KT1	318D-03	DIO318D-STYL2	SURFACE MOUNT, SWITCHING DIODE
M1MA151WAT1	318D-03	DIO318D-STYL5	SURFACE MOUNT, COMMON ANODE, DUAL SWITCHING DIODE
M1MA151WKT1	318D-03	DIO318D-STYL3	SURFACE MOUNT, COMMON CATHODE, DUAL SWITCHING DIODE
MAC1210-6FP	221C-02	TRIAC	TRIAC,VDRM=400V
MAC1210A6FP	221C-02	TRIAC	TRIAC,VDRM=400V
MAC15-10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=800V



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MAC15-10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC15-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=200V
MAC15-4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC15-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=400V
MAC15-6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC15-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=600V
MAC15-8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC15A10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=800V
MAC15A10FP	221C-02	TRIAC	TRIAC, VDRM=800V
MAC15A4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=200V
MAC15A4FP	221C-02	TRIAC	TRIAC, VDRM=200V
MAC15A6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=400V
MAC15A6FP	221C-02	TRIAC	TRIAC, VDRM=400V
MAC15A8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=600V
MAC15A8FP	221C-02	TRIAC	TRIAC, VDRM=600V
MAC16-10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC16-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC16-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC16-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MAC210-10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC210-10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC210-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC210-4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC210-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC210-6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC210-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC210-8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC210A10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC210A10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC210A4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC210A4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC210A6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC210A6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC210A8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC210A8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC212-10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC212-10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MAC212-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC212-4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC212-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC212-6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC212-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC212-8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC212A10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC212A10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC212A4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC212A4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC212A6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC212A6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC212A8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC212A8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC213-10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC213-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC213-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC213-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MAC218-10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC218-10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC218-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC218-4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC218-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC218-6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC218-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC218-8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC218A10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC218A10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC218A4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC218A4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC218A6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC218A6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC218A8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC218A8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC219-10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC219-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MAC219-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC219-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC223-10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC223-10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC223-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC223-4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC223-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC223-6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC223-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC223-8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC223A10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC223A10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC223A4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC223A4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC223A6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC223A6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC223A8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC223A8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MAC224-10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC224-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC224-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC224-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC224A10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC224A4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC224A6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC224A8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC228-10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC228-10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC228-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC228-4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC228-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC228-6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC228-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC228-8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC228A10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC228A10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MAC228A4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC228A4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC228A6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC228A6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC228A8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC228A8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC229-10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC229-10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC229-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC229-4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC229-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC229-6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC229-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC229-8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC229A10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC229A10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC229A4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC229A4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MAC229A6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC229A6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR,VDRM=400V
MAC229A8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC229A8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC245B	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
MAC245D	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
MAC245M	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
MAC245N	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=800V
MAC250B	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
MAC250B3	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
MAC250D	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
MAC250D3	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
MAC250M	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
MAC250M3	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
MAC250N	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=800V
MAC3010-15	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=250V
MAC3010-25	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=250V
MAC3010-4	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=250V



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MAC3010-40	263-04	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=250V
MAC3010-401	311-02	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=250V
MAC3010-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=250V
MAC3020-15	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC3020-25	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC3020-4	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC3020-40	263-04	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC3020-401	311-02	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC3020-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC3030-15	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=250V
MAC3030-25	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=250V
MAC3030-4	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=250V
MAC3030-40	263-04	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=250V
MAC3030-401	311-02	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=250V
MAC3030-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=250V
MAC3040-15	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC3040-25	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC3040-4	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MAC3040-40	263-04	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC3040-401	311-02	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC3040-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC310-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC310-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC310-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC310A4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC310A6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC310A8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC320-10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC320-10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC320-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC320-4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC320-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC320-6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC320-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC320-8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC320A10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MAC320A10FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC320A4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC320A4FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC320A6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC320A6FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC320A8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC320A8FP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC321-10	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
MAC321-4	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC321-6	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC321-8	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC4110M	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=600V
MAC4111M	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=600V
MAC4120B	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=200V
MAC4120D	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=400V
MAC4120M	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=600V
MAC4120N	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=800V
MAC4121B	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=200V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MAC4121D	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
MAC4121M	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
MAC4121N	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=800V
MAC5569	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
MAC5570	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
MAC5573	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
MAC5574	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
MAC625-4	383-01	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC625-6	383-01	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC625-8	383-01	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC635-4	383-01	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
MAC635-6	383-01	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
MAC635-8	383-01	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
MAC97-4	TO-92	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
MAC97-6	TO-92	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V
MAC97-8	TO-92	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
MAC97-A4	TO-92	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=200V
MAC97-A6	TO-92	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=400V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MAC97-A8	TO-92	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR VDRM=600V
MAD1103P	DIP14	DIO646-DUAL16	DUAL EIGHT DIODE ARRAY
MAD1107P	DIP14	DIO646-DUAL8	DUAL EIGHT DIODE ARRAY
MAD1108P	DIP16	DIO646	EIGHT DIODE ARRAY
MAD1109P	DIP14	DIO646	MONOLITHIC DIODE ARRAY
MAD130P	DIP14	DIO646-DUAL10	DUAL TEN DIODE ARRAY
MBD101	TO-226AC	DIO182	SILICON HOT CARRIER UHF MIXER DIODE
MBD301	TO-226AC	DIO182	SILICON HOT CARRIER DETECTION AND SWITCHING DIODE
MBD701	TO-226AC	DIO182	SILICON HOT CARRIER DETECTION AND SWITCHING DIODE
MBS4991	TO-92	SBS	SILICON BIDIRECTIONAL SWITCH, VF=5V
MBS4992	TO-92	SBS	SILICON BIDIRECTIONAL SWITCH, VF=5V
MBS4993	TO-92	SBS	SILICON BIDIRECTIONAL SWITCH, VF=5V
MCR100-3	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR100-4	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR100-6	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR100-8	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR102	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=30V
MCR103	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=60V
MCR106-2	TO-225AA	SCR	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=60V
MCR106-3	TO-225AA	SCR	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR106-4	TO-225AA	SCR	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MCR106-6	TO-225AA	SCR	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR106-8	TO-225AA	SCR	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR1718-5	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=300V
MCR1718-6	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR1718-7	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=500V
MCR1718-8	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR1906-2	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR1906-3	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR1906-4	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR1906-6	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR1906-8	TO-39	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR218-10	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
MCR218-10FP	221C-02	SCR	SCR; REVERSE BLOCKING THYRISTOR, VRRM=800V
MCR218-2	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR218-2FP	221C-02	SCR	SCR; REVERSE BLOCKING THYRISTOR, VRRM=50V
MCR218-3	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR218-4	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR218-4FP	221C-02	SCR	SCR; REVERSE BLOCKING THYRISTOR, VRRM=200V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MCR218-6	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR218-6FP	221C-02	SCR	SCR; REVERSE BLOCKING THYRISTOR, VRRM=400V
MCR218-8	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR218-8FP	221C-02	SCR	SCR; REVERSE BLOCKING THYRISTOR, VRRM=600V
MCR22-2	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR22-3	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR22-4	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR22-6	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR22-8	TO-92	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR225-10FP	221C-02	SCR	SCR; REVERSE BLOCKING THYRISTOR, VRRM=800V
MCR225-2FP	221C-02	SCR	SCR; REVERSE BLOCKING THYRISTOR, VRRM=50V
MCR225-4FP	221C-02	SCR	SCR; REVERSE BLOCKING THYRISTOR, VRRM=200V
MCR225-6FP	221C-02	SCR	SCR; REVERSE BLOCKING THYRISTOR, VRRM=400V
MCR225-8FP	221C-02	SCR	SCR; REVERSE BLOCKING THYRISTOR, VRRM=600V
MCR229A	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR229B	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR229D	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR229M	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MCR230A	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR230A3	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR230B	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR230B3	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR230D	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR230D3	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR230F	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR230F3	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR230M	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR230M3	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR231A	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR231A3	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR231B	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR231B3	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR231D	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR231D3	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR231F	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR231F3	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V



**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MCR231M	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR231M3	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR264-10	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
MCR264-2	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR264-3	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR264-4	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR264-6	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR264-8	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR265-10	TO-220AB	SCR-4	SCR, VRRM=800V
MCR265-2	TO-220AB	SCR-4	SCR, VRRM=50V
MCR265-3	TO-220AB	SCR-4	SCR, VRRM=100V
MCR265-4	TO-220AB	SCR-4	SCR, VRRM=200V
MCR265-6	TO-220AB	SCR-4	SCR, VRRM=400V
MCR265-8	TO-220AB	SCR-4	SCR, VRRM=600V
MCR2800A	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR2800B	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR2800D	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR2800F	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR2800M	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR2800N	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MCR310-10	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
MCR310-2	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR310-3	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR310-4	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR310-6	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR310-8	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR3818-10	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
MCR3818-2	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR3818-3	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR3818-4	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR3818-6	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR3818-8	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR3896	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR3897	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR3898	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR3899	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR3935-10	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
MCR3935-2	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MCR3935-8	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR3935-A10	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
MCR3935-A2	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR3935-A3	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR3935-A4	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR3935-A6	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR3935-A8	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR506-2	TO-225AA	SCR	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR506-3	TO-225AA	SCR	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR506-4	TO-225AA	SCR	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR506-6	TO-225AA	SCR	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR506-8	TO-225AA	SCR	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR64-10	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
MCR64-2	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR64-3	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR64-4	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR64-6	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR64-8	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MCR65-10	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
MCR65-2	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR65-3	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR65-4	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR65-6	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR65-8	311-02	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR68-2	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR68-3	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR68-6	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR69-2	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR69-3	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR69-6	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR70-2A	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR70-3A	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR70-6A	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR703A	TO-251AA:DPAK4-4	SCR-4	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR703A1	TO-251AA:DPAK4-4	SCR-4	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR704A	TO-251AA:DPAK4-4	SCR-4	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MCR704A1	TO-251AA:DPAK4-4	SCR-4	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR706A	TO-251AA:DPAK4-4	SCR-4	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR706A1	TO-251AA:DPAK4-4	SCR-4	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR708A	TO-251AA:DPAK4-4	SCR-4	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR708A1	TO-251AA:DPAK4-4	SCR-4	SCR; REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCR71-2	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR71-3	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR71-6	263-04	SCR	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR72-10	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=800V
MCR72-2	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=50V
MCR72-3	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=100V
MCR72-4	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=200V
MCR72-6	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=400V
MCR72-8	TO-220AB	SCR-4	SCR, REVERSE BLOCKING TRIODE THYRISTOR, VRRM=600V
MCT2	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MCT2E	DIP6	OPTO-ISO	OPTOISOLATOR, TRANSISTOR OUTPUT
MD4957	TO-99	PNP	DUAL PNP AMPLIFIER TRANSISTOR
MDC1000A	TO-92:TO-92A:TO-92B:TO-92C	TOFF-29	SMALLBLOCK MOSFET TURN-OFF DEVICE
MDC1000BLT1	SOT23	TOFF-318	SURFACE MOUNT SMALLBLOCK MOSFET TURN-OFF DEVICE

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MDC1000CT1	SOT223	TOFF-318E	SURFACE MOUNT SMALLBLOCK MOSFET TURN-OFF DEVICE
MDC1005A	TO-92:TO-92A:TO-92B:TO-92C	TOFF-29	SMALLBLOCK MOSFET TURN-OFF DEVICE
MDC1005BLT1	SOT23	TOFF-318	SURFACE MOUNT SMALLBLOCK MOSFET TURN-OFF DEVICE
MFOD1100	210A-01	LED-3	PHOTO DETECTOR, DIODE OUTPUT
MFOD200	82-05	NPN	PHOTO DETECTOR, TRANSISTOR OUTPUT
MFOD2404	210D-01	PHO-AMP	PHOTO DETECTOR, PREAMPLIFIER OUTPUT
MFOD2405	210D-01	PHO-AMP	PHOTO DETECTOR, PREAMPLIFIER OUTPUT
MFOD300	82-05	DARL-DET	PHOTO DETECTOR, DARLINGTON OUTPUT
MFOD3100	366-01	LED-3	PHOTO DETECTOR, DIODE OUTPUT
MFOD3510	366-01	PHO-DET	PHOTO DETECTOR, LOGIC OUTPUT
MFOD71	363B-01	LED	FIBER OPTICS-FLCS FAMILY, PHOTO DETECTOR, DIODE OUTPUT
MFOD72	363B-01	PHOTO-NPN	FIBER OPTICS-FLCS FAMILY, PHOTO DETECTOR, TRAN. OUTPUT
MFOD73	363B-01	PHOTO-DARL	FIBER OPTICS-FLCS FAMILY, PHOTO DETECTOR, DARL. OUTPUT
MFOD75	363C-01	PHO-DET	FIBER OPTICS-FLCS FAMILY, PHOTO DETECTOR, LOGIC OUTPUT
MFOE1100	210A-01	LED-4	INFRARED LED
MFOE1101	210A-01	LED-4	INFRARED LED
MFOE1102	210A-01	LED-4	INFRARED LED
MFOE1200	210A-01	LED-4	INFRARED LED
MFOE1201	210A-01	LED-4	INFRARED LED
MFOE1202	210A-01	LED-4	INFRARED LED
MFOE1203	210A-01	LED-4	INFRARED LED
MFOE200	209-02	LED	INFRARED LED
MFOE3100	366-01	LED-3	INFRARED LED
MFOE3101	366-01	LED-3	INFRARED LED
MFOE3200	366-01	LED-3	INFRARED LED

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MFOE3201	366-01	LED-3	INFRARED LED
MFOE3202	366-01	LED-3	INFRARED LED
MFOE71	363B-01	LED	FLCS FAMILY, INFRARED LED
MFOE76	363B-01	LED	FLCS FAMILY, VISIBLE RED LED
MJ1000	TO-204AA	DARL-NPN	NPN DARLINGTON, 60 VOLTS/90 WATTS
MJ10000	TO-204AA	DARL-NPN	NPN DARLINGTON, 350 VOLTS/175 WATTS
MJ10001	TO-204AA	DARL-NPN	NPN DARLINGTON, 400 VOLTS/175 WATTS
MJ10002	TO-204AA	DARL-NPN	NPN DARLINGTON, 350 VOLTS/150 WATTS
MJ10004	TO-204AA	DARL-NPN	NPN DARLINGTON, 350 VOLTS/175 WATTS
MJ10005	TO-204AA	DARL-NPN	NPN DARLINGTON, 400 VOLTS/175 WATTS
MJ10006	TO-204AA	DARL-NPN	NPN DARLINGTON, 350 VOLTS/150 WATTS
MJ10007	TO-204AA	DARL-NPN	NPN DARLINGTON, 400 VOLTS/150 WATTS
MJ10008	TO-204AA	DARL-NPN	NPN DARLINGTON, 450 VOLTS/175 WATTS
MJ10009	TO-204AA	DARL-NPN	NPN DARLINGTON, 500 VOLTS/175 WATTS
MJ1001	TO-204AA	DARL-NPN	NPN DARLINGTON, 80 VOLTS/90 WATTS
MJ10011	TO-204AA	DARL-NPN	NPN DARLINGTON, 1400 VOLTS/80 WATTS
MJ10012	TO-204AA	DARL-NPN	NPN DARLINGTON, 400 VOLTS/175 WATTS
MJ10014	TO-204AA	DARL-NPN	NPN DARLINGTON, 600 VOLTS/175 WATTS
MJ10015	TO-204AE	DARL-NPN	NPN DARLINGTON, 400 VOLTS/250 WATTS
MJ10016	TO-204AE	DARL-NPN	NPN DARLINGTON, 500 VOLTS/250 WATTS
MJ10020	TO-204AE	DARL-NPN	NPN DARLINGTON, 200 VOLTS/250 WATTS
MJ10021	TO-204AE	DARL-NPN	NPN DARLINGTON, 250 VOLTS/250 WATTS
MJ10022	TO-204AE	DARL-NPN	NPN DARLINGTON, 350 VOLTS/250 WATTS
MJ10023	TO-204AE	DARL-NPN	NPN DARLINGTON, 400 VOLTS/250 WATTS
MJ10024	TO-204AA	DARL-NPN	NPN DARLINGTON, 750 VOLTS/250 WATTS
MJ10025	TO-204AA	DARL-NPN	NPN DARLINGTON, 850 VOLTS/250 WATTS
MJ11011	TO-204AA	DARL-PNP	PNP DARLINGTON, 60 VOLTS/200 WATTS
MJ11012	TO-204AA	DARL-NPN	NPN DARLINGTON, 60 VOLTS/200 WATTS
MJ11013	TO-204AA	DARL-PNP	PNP DARLINGTON, 90 VOLTS/200 WATTS
MJ11014	TO-204AA	DARL-NPN	NPN DARLINGTON, 90 VOLTS/200 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MJ11015	TO-204AA	DARL-PNP	PNP DARLINGTON, 120 VOLTS/200 WATTS
MJ11016	TO-204AA	DARL-NPN	NPN DARLINGTON, 120 VOLTS/200 WATTS
MJ11017	TO-204AA	DARL-PNP	PNP DARLINGTON, 150 VOLTS/175 WATTS
MJ11018	TO-204AA	DARL-NPN	NPN DARLINGTON, 150 VOLTS/175 WATTS
MJ11019	TO-204AA	DARL-PNP	PNP DARLINGTON, 200 VOLTS/175 WATTS
MJ11020	TO-204AA	DARL-NPN	NPN DARLINGTON, 200 VOLTS/175 WATTS
MJ11021	TO-204AA	DARL-PNP	PNP DARLINGTON, 250 VOLTS/175 WATTS
MJ11022	TO-204AA	DARL-NPN	NPN DARLINGTON, 250 VOLTS/175 WATTS
MJ11028	TO-204AE	DARL-NPN	NPN DARLINGTON, 60 VOLTS/300 WATTS
MJ11029	TO-204AE	DARL-PNP	PNP DARLINGTON, 60 VOLTS/300 WATTS
MJ11030	TO-204AE	DARL-NPN	NPN DARLINGTON, 90 VOLTS/300 WATTS
MJ11031	TO-204AE	DARL-PNP	PNP DARLINGTON, 90 VOLTS/300 WATTS
MJ11032	TO-204AE	DARL-NPN	NPN DARLINGTON, 120 VOLTS/300 WATTS
MJ11033	TO-204AE	DARL-PNP	PNP DARLINGTON, 120 VOLTS/300 WATTS
MJ12002	TO-204AA	NPN	NPN POWER TRANSISTOR,750 VOLTS/75 WATTS
MJ12003	TO-204AA	NPN	NPN POWER TRANSISTOR,750 VOLTS/100 WATTS
MJ12004	TO-204AA	NPN	NPN POWER TRANSISTOR,750 VOLTS/100 WATTS
MJ12005	TO-204AA	NPN	NPN POWER TRANSISTOR,1500 VOLTS/100 WATTS
MJ12005D	TO-204AA	NPN	NPN POWER TRANSISTOR,1500 VOLTS/100 WATTS
MJ12010	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/100 WATTS
MJ12020	TO-204AA	NPN	NPN POWER TRANSISTOR,450 VOLTS/125 WATTS
MJ12021	TO-204AA	NPN	NPN POWER TRANSISTOR,450 VOLTS/150 WATTS
MJ12022	TO-204AA	NPN	NPN POWER TRANSISTOR,450 VOLTS/175 WATTS



**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MJ13014	TO-204AA	NPN	NPN POWER TRANSISTOR,350 VOLTS/150 WATTS
MJ13015	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/150 WATTS
MJ13070	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/125 WATTS
MJ13080	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/150 WATTS
MJ13090	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/175 WATTS
MJ13330	TO-204AA	NPN	NPN POWER TRANSISTOR,200 VOLTS/175 WATTS
MJ13331	TO-204AA	NPN	NPN POWER TRANSISTOR,250 VOLTS/175 WATTS
MJ13333	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/175 WATTS
MJ13335	TO-204AA	NPN	NPN POWER TRANSISTOR,500 VOLTS/175 WATTS
MJ14000	TO-204AE	NPN	NPN POWER TRANSISTOR,60 VOLTS/300 WATTS
MJ14001	TO-204AE	PNP	PNP POWER TRANSISTOR,60 VOLTS/300 WATTS
MJ14002	TO-204AE	NPN	NPN POWER TRANSISTOR,80 VOLTS/300 WATTS
MJ14003	TO-204AE	PNP	PNP POWER TRANSISTOR,80 VOLTS/300 WATTS
MJ15001	TO-204AA	NPN	NPN POWER TRANSISTOR,140 VOLTS/200 WATTS
MJ15002	TO-204AA	PNP	PNP POWER TRANSISTOR,140 VOLTS/200 WATTS
MJ15003	TO-204AA	NPN	NPN POWER TRANSISTOR,140 VOLTS/250 WATTS
MJ15004	TO-204AA	PNP	PNP POWER TRANSISTOR,140 VOLTS/250 WATTS
MJ15011	TO-204AA	NPN	NPN POWER TRANSISTOR,250 VOLTS/200 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MJ15012	TO-204AA	PNP	PNP POWER TRANSISTOR,250 VOLTS/200 WATTS
MJ15015	TO-204AA	NPN	NPN POWER TRANSISTOR,120 VOLTS/180 WATTS
MJ15016	TO-204AA	PNP	PNP POWER TRANSISTOR,120 VOLTS/180 WATTS
MJ15018	TO-204AA	NPN	NPN POWER TRANSISTOR,200 VOLTS/150 WATTS
MJ15019	TO-204AA	PNP	PNP POWER TRANSISTOR,200 VOLTS/150 WATTS
MJ15020	TO-204AA	NPN	NPN POWER TRANSISTOR,250 VOLTS/150 WATTS
MJ15021	TO-204AA	PNP	PNP POWER TRANSISTOR,250 VOLTS/150 WATTS
MJ15022	TO-204AA	NPN	NPN POWER TRANSISTOR,200 VOLTS/250 WATTS
MJ15023	TO-204AA	PNP	PNP POWER TRANSISTOR,200 VOLTS/250 WATTS
MJ15024	TO-204AA	NPN	NPN POWER TRANSISTOR,250 VOLTS/250 WATTS
MJ15025	TO-204AA	PNP	PNP POWER TRANSISTOR,250 VOLTS/250 WATTS
MJ16002	TO-204AA	NPN	NPN POWER TRANSISTOR,450 VOLTS/125 WATTS
MJ16002A	TO-204AA	NPN	NPN POWER TRANSISTOR,500 VOLTS/125 WATTS
MJ16004	TO-204AA	NPN	NPN POWER TRANSISTOR,450 VOLTS/125 WATTS
MJ16006	TO-204AA	NPN	NPN POWER TRANSISTOR,450 VOLTS/150 WATTS
MJ16006A	TO-204AA	NPN	NPN POWER TRANSISTOR,500 VOLTS/150 WATTS
MJ16008	TO-204AA	NPN	NPN POWER TRANSISTOR,450 VOLTS/150 WATTS
MJ16010	TO-204AA	NPN	NPN POWER TRANSISTOR,450 VOLTS/175 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MJ16010A	TO-204AA	NPN	NPN POWER TRANSISTOR,500 VOLTS/175 WATTS
MJ16012	TO-204AA	NPN	NPN POWER TRANSISTOR,450 VOLTS/175 WATTS
MJ16014	TO-204AE	NPN	NPN POWER TRANSISTOR,450 VOLTS/250 WATTS
MJ16016	TO-204AE	NPN	NPN POWER TRANSISTOR,450 VOLTS/250 WATTS
MJ16018	TO-204AA	NPN	NPN POWER TRANSISTOR,800 VOLTS/175 WATTS
MJ16110	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/175 WATTS
MJ2500	TO-204AA	DARL-PNP	PNP DARLINGTON, 60 VOLTS/150 WATTS
MJ2501	TO-204AA	DARL-PNP	PNP DARLINGTON, 80 VOLTS/150 WATTS
MJ2955	TO-204AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/115 WATTS
MJ2955A	TO-204AA	PNP	PNP POWER TRANSISTOR, 60 VOLTS/115 WATTS
MJ3000	TO-204AA	DARL-NPN	NPN DARLINGTON, 60 VOLTS/150 WATTS
MJ3001	TO-204AA	DARL-NPN	NPN DARLINGTON, 80 VOLTS/150 WATTS
MJ3029	TO-204AA	DARL-NPN	NPN DARLINGTON, 250 VOLTS/125 WATTS
MJ3041	TO-204AA	DARL-NPN	NPN DARLINGTON, 300 VOLTS/175 WATTS
MJ3042	TO-204AA	DARL-NPN	NPN DARLINGTON, 350 VOLTS/175 WATTS
MJ410	TO-204AA	NPN	NPN POWER TRANSISTOR,200 VOLTS/100 WATTS
MJ411	TO-204AA	NPN	NPN POWER TRANSISTOR,300 VOLTS/100 WATTS
MJ413	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/125 WATTS
MJ423	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/125 WATTS
MJ431	TO-204AA	NPN	NPN POWER TRANSISTOR,400 VOLTS/125 WATTS
MJ4502	TO-204AA	DARL-PNP	PNP DARLINGTON, 100 VOLTS/200 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MJ4646	TO-39	PNP	PNP POWER TRANSISTOR,300 VOLTS/5 WATTS
MJ4647	TO-39	PNP	PNP POWER TRANSISTOR,400 VOLTS/5 WATTS
MJ6503	TO-204AA	PNP	PNP POWER TRANSISTOR,400 VOLTS/125 WATTS
MJ802	TO-204AA	NPN	NPN POWER TRANSISTOR,100 VOLTS/200 WATTS
MJ8501	TO-204AA	NPN	NPN POWER TRANSISTOR,800 VOLTS/125 WATTS
MJ8502	TO-204AA	NPN	NPN POWER TRANSISTOR,700 VOLTS/150 WATTS
MJ8503	TO-204AA	NPN	NPN POWER TRANSISTOR,800 VOLTS/150 WATTS
MJ8504	TO-204AA	NPN	NPN POWER TRANSISTOR,700 VOLTS/175 WATTS
MJ8505	TO-204AA	NPN	NPN POWER TRANSISTOR,800 VOLTS/175 WATTS
MJ900	TO-204AA	DARL-PNP	PNP DARLINGTON, 60 VOLTS/90 WATTS
MJ901	TO-204AA	DARL-PNP	PNP DARLINGTON, 80 VOLTS/90 WATTS
MJD112	DPAK4	NPN	NPN POWER TRANSISTOR, 100 VOLT/20 WATTS
MJD112-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 100 VOLT/20 WATTS
MJD117	DPAK4	PNP	PNP POWER TRANSISTOR, 100 VOLT/20 WATTS
MJD117-1	TO-251AA	PNP	PNP POWER TRANSISTOR, 100 VOLT/20 WATTS
MJD122	DPAK4	NPN	NPN POWER TRANSISTOR, 100 VOLT/20 WATTS
MJD122-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 100 VOLT/20 WATTS
MJD127	DPAK4	PNP	PNP POWER TRANSISTOR, 100 VOLT/20 WATTS
MJD127-1	TO-251AA	PNP	PNP POWER TRANSISTOR, 100 VOLT/20 WATTS
MJD13003	DPAK4	NPN	NPN POWER TRANSISTOR, 400 VOLT/15 WATTS
MJD13003-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 400 VOLT/15 WATTS
MJD148	DPAK4	NPN	NPN POWER TRANSISTOR, 45 VOLT/20 WATTS
MJD148-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 45 VOLT/20 WATTS
MJD200	DPAK4	NPN	NPN POWER TRANSISTOR, 25 VOLT/12.5 WATTS
MJD200-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 25 VOLT/12.5 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MJD210	DPAK4	PNP	PNP POWER TRANSISTOR, 25 VOLT/12.5 WATT
MJD210-1	TO-251AA	PNP	PNP POWER TRANSISTOR, 25 VOLT/12.5 WATT
MJD243	DPAK4	NPN	NPN POWER TRANSISTOR, 100 VOLT/12.5 WATT
MJD243-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 100 VOLT/12.5 WATT
MJD2955	DPAK4	PNP	PNP POWER TRANSISTOR, 60 VOLT/20 WATT
MJD2955-1	TO-251AA	PNP	PNP POWER TRANSISTOR, 60 VOLT/20 WATT
MJD3055	DPAK4	NPN	NPN POWER TRANSISTOR, 60 VOLT/20 WATT
MJD3055-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 60 VOLT/20 WATT
MJD31	DPAK4	NPN	NPN POWER TRANSISTOR, 40 VOLT/15 WATT
MJD31-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 40 VOLT/15 WATT
MJD31C	DPAK4	NPN	NPN POWER TRANSISTOR, 100 VOLT/15 WATT
MJD31C-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 100 VOLT/15 WATT
MJD32	DPAK4	PNP	PNP POWER TRANSISTOR, 40 VOLT/15 WATT
MJD32-1	TO-251AA	PNP	PNP POWER TRANSISTOR, 40 VOLT/15 WATT
MJD32C	DPAK4	PNP	PNP POWER TRANSISTOR, 100 VOLT/15 WATT
MJD32C-1	TO-251AA	PNP	PNP POWER TRANSISTOR, 100 VOLT/15 WATT
MJD340	DPAK4	NPN	NPN POWER TRANSISTOR, 300 VOLT/15 WATT
MJD340-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 300 VOLT/15 WATT
MJD350	DPAK4	PNP	PNP POWER TRANSISTOR, 300 VOLT/15 WATT
MJD350-1	TO-251AA	PNP	PNP POWER TRANSISTOR, 300 VOLT/15 WATT
MJD41C	DPAK4	NPN	NPN POWER TRANSISTOR, 100 VOLT/20 WATT
MJD41C-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 100 VOLT/20 WATT
MJD42C	DPAK4	PNP	PNP POWER TRANSISTOR, 100 VOLT/20 WATT
MJD42C-1	TO-251AA	PNP	PNP POWER TRANSISTOR, 100 VOLT/20 WATT
MJD44E3	DPAK4	DARL-NPN	NPN DARLINGTON, 80 VOLT/20 WATT
MJD44E3-1	TO-251AA	DARL-NPN	NPN DARLINGTON, 80 VOLT/20 WATT
MJD44H11	DPAK4	NPN	NPN POWER TRANSISTOR, 80 VOLT/20 WATT
MJD44H11-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 80 VOLT/20 WATT

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MJD45H11	DPAK4	PNP	PNP POWER TRANSISTOR, 80 VOLT/20 WATT
MJD45H11-1	TO-251AA	PNP	PNP POWER TRANSISTOR, 80 VOLT/20 WATT
MJD47	DPAK4	NPN	NPN POWER TRANSISTOR, 250 VOLT/15 WATT
MJD47-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 250 VOLT/15 WATT
MJD50	DPAK4	NPN	NPN POWER TRANSISTOR, 400 VOLT/15 WATT
MJD50-1	TO-251AA	NPN	NPN POWER TRANSISTOR, 400 VOLT/15 WATT
MJD6036	DPAK4	DARL-PNP	PNP DARLINGTON, 80 VOLT/20 WATT
MJD6036-1	TO-251AA	DARL-PNP	PNP DARLINGTON, 80 VOLT/20 WATT
MJD6039	DPAK4	DARL-NPN	NPN DARLINGTON, 80 VOLT/20 WATT
MJD6039-1	TO-251AA	DARL-NPN	NPN DARLINGTON, 80 VOLT/20 WATT
MJE105	TO-225AB	PNP	PNP POWER TRANSISTOR, 50 VOLT/65 WATT
MJE12007	TO-220AB	NPN	NPN POWER TRANSISTOR, 750 VOLT/65 WATT
MJE13002	TO-225AA	NPN	NPN POWER TRANSISTOR, 300 VOLT/40 WATT
MJE13003	TO-225AA	NPN	NPN POWER TRANSISTOR, 400 VOLT/40 WATT
MJE13004	TO-220AB	NPN	NPN POWER TRANSISTOR, 300 VOLT/75 WATT
MJE13005	TO-220AB	NPN	NPN POWER TRANSISTOR, 400 VOLT/75 WATT
MJE13006	TO-220AB	NPN	NPN POWER TRANSISTOR, 300 VOLT/80 WATT
MJE13007	TO-220AB	NPN	NPN POWER TRANSISTOR, 400 VOLT/80 WATT
MJE13008	TO-220AB	NPN	NPN POWER TRANSISTOR, 300 VOLT/100 WATT
MJE13009	TO-220AB	NPN	NPN POWER TRANSISTOR, 400 VOLT/100 WATT
MJE13070	TO-220AB	NPN	NPN POWER TRANSISTOR, 400 VOLT/80 WATT
MJE1320	TO-220AB	NPN	NPN POWER TRANSISTOR, 900 VOLT/80 WATT
MJE15028	TO-220AB	NPN	NPN POWER TRANSISTOR, 120 VOLT/50 WATT
MJE15029	TO-220AB	PNP	PNP POWER TRANSISTOR, 120 VOLT/50 WATT
MJE15030	TO-220AB	NPN	NPN POWER TRANSISTOR, 150 VOLT/50 WATT
MJE15031	TO-220AB	PNP	PNP POWER TRANSISTOR, 150 VOLT/50 WATT
MJE16002	TO-220AB	NPN	NPN POWER TRANSISTOR, 450 VOLT/80 WATT
MJE16004	TO-220AB	NPN	NPN POWER TRANSISTOR, 450 VOLT/80 WATT

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MJE16032	TO-220AB	NPN	NPN POWER TRANSISTOR, 750 VOLT/80 WATT
MJE16034	TO-220AB	NPN	NPN POWER TRANSISTOR, 850 VOLT/80 WATT
MJE16080	TO-220AB	NPN	NPN POWER TRANSISTOR, 400 VOLT/80 WATT
MJE16081	TO-220AB	NPN	NPN POWER TRANSISTOR, 450 VOLT/80 WATT
MJE16106	TO-220AB	NPN	NPN POWER TRANSISTOR, 400 VOLT/100 WATT
MJE1660	TO-225AB	NPN	NPN POWER TRANSISTOR, 40 VOLT/90 WATT
MJE1661	TO-225AB	NPN	NPN POWER TRANSISTOR, 60 VOLT/90 WATT
MJE170	TO-225AA	PNP	PNP POWER TRANSISTOR, 40 VOLT/12.5 WATT
MJE171	TO-225AA	PNP	PNP POWER TRANSISTOR, 60 VOLT/12.5 WATT
MJE172	TO-225AA	PNP	PNP POWER TRANSISTOR, 80 VOLT/12.5 WATT
MJE180	TO-225AA	NPN	NPN POWER TRANSISTOR, 40 VOLT/12.5 WATT
MJE181	TO-225AA	NPN	NPN POWER TRANSISTOR, 60 VOLT/12.5 WATT
MJE182	TO-225AA	NPN	NPN POWER TRANSISTOR, 80 VOLT/12.5 WATT
MJE200	TO-225AA	NPN	NPN POWER TRANSISTOR, 25 VOLT/15 WATT
MJE210	TO-225AA	PNP	PNP POWER TRANSISTOR, 25 VOLT/15 WATT
MJE2360T	TO-220AB	NPN	NPN POWER TRANSISTOR, 350 VOLT/30 WATT
MJE2361T	TO-220AB	NPN	NPN POWER TRANSISTOR, 350 VOLT/30 WATT
MJE240	TO-225AA	NPN	NPN POWER TRANSISTOR, 80 VOLT/15 WATT
MJE241	TO-225AA	NPN	NPN POWER TRANSISTOR, 80 VOLT/15 WATT
MJE243	TO-225AA	NPN	NPN POWER TRANSISTOR, 100 VOLT/15 WATT
MJE244	TO-225AA	NPN	NPN POWER TRANSISTOR, 100 VOLT/15 WATT
MJE250	TO-225AA	PNP	PNP POWER TRANSISTOR, 80 VOLT/15 WATT
MJE251	TO-225AA	PNP	PNP POWER TRANSISTOR, 80 VOLT/15 WATT
MJE252	TO-225AA	PNP	PNP POWER TRANSISTOR, 80 VOLT/15 WATT
MJE253	TO-225AA	PNP	PNP POWER TRANSISTOR, 100 VOLT/15 WATT
MJE254	TO-225AA	PNP	PNP POWER TRANSISTOR, 100 VOLT/15 WATT
MJE270	TO-225AA	DARL-NPN	NPN DARLINGTON, 100 VOLTS/15 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MJE271	TO-225AA	DARL-PNP	PNP DARLINGTON, 100 VOLTS/15 WATTS
MJE2801	TO-225AB	NPN	NPN POWER TRANSISTOR, 60 VOLT/90 WATT
MJE2801T	TO-220AB	NPN	NPN POWER TRANSISTOR, 60 VOLT/75 WATT
MJE2901	TO-225AB	NPN	PNP POWER TRANSISTOR, 60 VOLT/90 WATT
MJE2955	TO-225AB	PNP	PNP POWER TRANSISTOR, 60 VOLT/90 WATT
MJE2955T	TO-220AB	PNP	PNP POWER TRANSISTOR, 60 VOLT/75 WATT
MJE3055	TO-225AB	NPN	NPN POWER TRANSISTOR, 60 VOLT/90 WATT
MJE3055T	TO-220AB	NPN	NPN POWER TRANSISTOR, 60 VOLT/75 WATT
MJE3300	TO-225AA	DARL-NPN	NPN DARLINGTON, 40 VOLT/15 WATT
MJE3301	TO-225AA	DARL-NPN	NPN DARLINGTON, 60 VOLT/15 WATT
MJE3310	TO-225AA	DARL-PNP	PNP DARLINGTON, 40 VOLT/15 WATT
MJE340	TO-225AA	NPN	NPN POWER TRANSISTOR, 300 VOLT/20 WATT
MJE341	TO-225AA	NPN	NPN POWER TRANSISTOR, 150 VOLT/20 WATT
MJE3439	TO-225AA	NPN	NPN POWER TRANSISTOR, 250 VOLT/15 WATT
MJE344	TO-225AA	NPN	NPN POWER TRANSISTOR, 200 VOLT/20 WATT
MJE3440	TO-225AA	NPN	NPN POWER TRANSISTOR, 350 VOLT/15 WATT
MJE350	TO-225AA	PNP	PNP POWER TRANSISTOR, 300 VOLT/20 WATT
MJE370	TO-225AA	PNP	PNP POWER TRANSISTOR, 30 VOLT/25 WATT
MJE371	TO-225AA	PNP	PNP POWER TRANSISTOR, 40 VOLT/40 WATT
MJE4340	TO-218AC	NPN	NPN POWER TRANSISTOR, 100 VOLT/125 WATT
MJE4341	TO-218AC	NPN	NPN POWER TRANSISTOR, 120 VOLT/125 WATT
MJE4342	TO-218AC	NPN	NPN POWER TRANSISTOR, 140 VOLT/125 WATT
MJE4343	TO-218AC	NPN	NPN POWER TRANSISTOR, 160 VOLT/125 WATT
MJE4350	TO-218AC	PNP	PNP POWER TRANSISTOR, 100 VOLT/125 WATT
MJE4351	TO-218AC	PNP	PNP POWER TRANSISTOR, 120 VOLT/125 WATT
MJE4352	TO-218AC	PNP	PNP POWER TRANSISTOR, 140 VOLT/125 WATT
MJE4353	TO-218AC	PNP	PNP POWER TRANSISTOR, 160 VOLT/125 WATT



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MJE520	TO-225AA	NPN	NPN POWER TRANSISTOR, 30 VOLT/25 WATT
MJE5740	TO-220AB	DARL-NPN	NPN DARLINGTON, 300 VOLT/80 WATT
MJE5741	TO-220AB	DARL-NPN	NPN DARLINGTON, 350 VOLT/80 WATT
MJE5742	TO-220AB	DARL-NPN	NPN DARLINGTON, 400 VOLT/80 WATT
MJE5850	TO-220AB	PNP	PNP POWER TRANSISTOR, 300 VOLT/80 WATT
MJE5851	TO-220AB	PNP	PNP POWER TRANSISTOR, 350 VOLT/80 WATT
MJE5852	TO-220AB	PNP	PNP POWER TRANSISTOR, 400 VOLT/80 WATT
MJE6040	TO-225AB	DARL-PNP	PNP DARLINGTON, 60 VOLTS/75 WATTS
MJE6041	TO-225AB	DARL-PNP	PNP DARLINGTON, 80 VOLTS/75 WATTS
MJE6043	TO-225AB	DARL-NPN	NPN DARLINGTON, 60 VOLTS/75 WATTS
MJE6044	TO-225AB	DARL-NPN	NPN DARLINGTON, 80 VOLTS/75 WATTS
MJE6045	TO-225AB	DARL-NPN	NPN DARLINGTON, 100 VOLTS/75 WATTS
MJE700	TO-225AA	PNP	PNP POWER TRANSISTOR, 60 VOLT/40 WATT
MJE700T	TO-220AB	PNP	PNP POWER TRANSISTOR, 80 VOLT/50 WATT
MJE701	TO-225AA	PNP	PNP POWER TRANSISTOR, 60 VOLT/40 WATT
MJE702	TO-225AA	PNP	PNP POWER TRANSISTOR, 60 VOLT/40 WATT
MJE703	TO-225AA	PNP	PNP POWER TRANSISTOR, 60 VOLT/40 WATT
MJE800	TO-225AA	NPN	NPN POWER TRANSISTOR, 60 VOLT/40 WATT
MJE800T	TO-220AB	NPN	NPN POWER TRANSISTOR, 80 VOLT/50 WATT
MJE801	TO-225AA	NPN	NPN POWER TRANSISTOR, 60 VOLT/40 WATT
MJE802	TO-225AA	NPN	NPN POWER TRANSISTOR, 60 VOLT/40 WATT
MJE803	TO-225AA	NPN	NPN POWER TRANSISTOR, 60 VOLT/40 WATT
MJE8500	TO-220AB	NPN	NPN POWER TRANSISTOR, 700 VOLT/65 WATT
MJE8501	TO-220AB	NPN	NPN POWER TRANSISTOR, 800 VOLT/65 WATT
MJE8502	TO-220AB	NPN	NPN POWER TRANSISTOR, 700 VOLT/80 WATT
MJE8503	TO-220AB	NPN	NPN POWER TRANSISTOR, 800 VOLT/80 WATT
MJF102	221C-02	DARL-NPN	NPN DARLINGTON, 100 VOLT/35 WATT
MJF107	221C-02	DARL-PNP	PNP DARLINGTON, 100 VOLT/35 WATT
MJF122	221C-02	DARL-NPN	NPN DARLINGTON, 100 VOLT/30 WATT
MJF127	221C-02	DARL-PNP	PNP DARLINGTON, 100 VOLT/30 WATT

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MJF15030	221C-02	NPN	NPN POWER TRANSISTOR, 150 VOLT/36 WATT
MJF15031	221C-02	PNP	PNP POWER TRANSISTOR, 150 VOLT/36 WATT
MJF47	221C-02	NPN	NPN POWER TRANSISTOR, 250 VOLT/28 WATT
MJF6107	221C-02	PNP	PNP POWER TRANSISTOR, 70 VOLT/34 WATT
MJH10012	TO-218AC	DARL-NPN	NPN DARLINGTON,400 VOLTS/118 WATTS
MJH11017	TO-218AC	DARL-PNP	PNP DARLINGTON,150 VOLTS/150 WATTS
MJH11018	TO-218AC	DARL-NPN	NPN DARLINGTON,150 VOLTS/150 WATTS
MJH11019	TO-218AC	DARL-PNP	PNP DARLINGTON,200 VOLTS/150 WATTS
MJH11020	TO-218AC	DARL-NPN	NPN DARLINGTON,200 VOLTS/150 WATTS
MJH11021	TO-218AC	DARL-PNP	PNP DARLINGTON,250 VOLTS/150 WATTS
MJH11022	TO-218AC	DARL-NPN	NPN DARLINGTON,250 VOLTS/150 WATTS
MJH12004	TO-218AC	NPN	NPN POWER TRANSISTOR,750 VOLTS/100 WATTS
MJH13090	TO-218AC	NPN	NPN POWER TRANSISTOR,400 VOLTS/125 WATTS
MJH16002	TO-218AC	NPN	NPN POWER TRANSISTOR, 450 VOLT/100 WATT
MJH16002A	TO-218AC	NPN	NPN POWER TRANSISTOR,500 VOLTS/100 WATTS
MJH16004	TO-218AC	NPN	NPN POWER TRANSISTOR, 450 VOLT/100 WATT
MJH16006	TO-218AC	NPN	NPN POWER TRANSISTOR,450 VOLTS/125 WATTS
MJH16006A	TO-218AC	NPN	NPN POWER TRANSISTOR,500 VOLTS/125 WATTS
MJH16008	TO-218AC	NPN	NPN POWER TRANSISTOR,450 VOLTS/125 WATTS
MJH16010	TO-218AC	NPN	NPN POWER TRANSISTOR,450 VOLTS/135 WATTS
MJH16010A	TO-218AC	NPN	NPN POWER TRANSISTOR,500 VOLTS/125 WATTS
MJH16012	TO-218AC	NPN	NPN POWER TRANSISTOR,450 VOLTS/135 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MJH16018	TO-218AC	NPN	NPN POWER TRANSISTOR,800 VOLTS/125 WATTS
MJH16032	TO-218AC	NPN	NPN POWER TRANSISTOR, 750 VOLT/125 WATT
MJH16034	TO-218AC	NPN	NPN POWER TRANSISTOR, 850 VOLT/125 WATT
MJH16106	TO-218AC	NPN	NPN POWER TRANSISTOR, 400 VOLT/125 WATT
MJH16110	TO-218AC	NPN	NPN POWER TRANSISTOR,400 VOLTS/135 WATTS
MJH6282	TO-218AC	DARL-NPN	NPN DARLINGTON, 60 VOLTS/160 WATTS
MJH6283	TO-218AC	DARL-NPN	NPN DARLINGTON, 80 VOLTS/160 WATTS
MJH6284	TO-218AC	DARL-NPN	NPN DARLINGTON,100 VOLTS/160 WATTS
MJH6285	TO-218AC	DARL-PNP	PNP DARLINGTON, 60 VOLTS/160 WATTS
MJH6286	TO-218AC	DARL-PNP	PNP DARLINGTON, 80 VOLTS/160 WATTS
MJH6287	TO-218AC	DARL-PNP	PNP DARLINGTON, 100 VOLTS/160 WATTS
MK1V115	267-03	SIDAC	SIDAC HIGH VOLTAGE BILATERAL TRIGGER VBO=115V
MK1V125	267-03	SIDAC	SIDAC HIGH VOLTAGE BILATERAL TRIGGER VBO=125V
MK1V135	267-03	SIDAC	SIDAC HIGH VOLTAGE BILATERAL TRIGGER VBO=135V
MK1V240	267-03	SIDAC	SIDAC HIGH VOLTAGE BILATERAL TRIGGER VBO=240V
MK1V260	267-03	SIDAC	SIDAC HIGH VOLTAGE BILATERAL TRIGGER VBO=260V
MK1V270	267-03	SIDAC	SIDAC HIGH VOLTAGE BILATERAL TRIGGER VBO=270V
MKP9V120	DO41	SIDAC	SIDAC HIGH VOLTAGE BILATERAL TRIGGER VDRM=90V
MKP9V130	DO41	SIDAC	SIDAC HIGH VOLTAGE BILATERAL TRIGGER VDRM=90V
MKP9V240	DO41	SIDAC	SIDAC HIGH VOLTAGE BILATERAL TRIGGER VDRM=180V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MKP9V260	DO41	SIDAC	SIDAC HIGH VOLTAGE BILATERAL TRIGGER DIODE, VDRM=180V
MKP9V270	DO41	SIDAC	SIDAC HIGH VOLTAGE BILATERAL TRIGGER DIODE, VDRM=180V
MLLED71	349-01	LED	INFRARED LED
MLLED76	349-01	LED	INFRARED LED
MLLED77	349-01	LED	INFRARED LED
MLLED81	279B-01	LED	INFRARED LED
MLL4678	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=1.8V
MLL4679	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.0V
MLL4680	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.2V
MLL4681	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.4V
MLL4682	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V
MLL4683	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
MLL4684	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
MLL4685	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
MLL4686	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
MLL4687	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
MLL4688	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
MLL4689	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
MLL4690	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MLL4691	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
MLL4692	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
MLL4693	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
MLL4694	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
MLL4695	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.7V
MLL4696	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
MLL4697	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
MLL4698	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
MLL4699	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
MLL4700	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
MLL4701	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=14V
MLL4702	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
MLL4703	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
MLL4704	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=17V
MLL4705	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
MLL4706	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=19V
MLL4707	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
MLL4708	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MLL4709	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
MLL4710	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=25V
MLL4711	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
MLL4712	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=28V
MLL4713	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
MLL4714	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
MLL4715	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
MLL4716	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
MLL4717	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
MLL5221B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.4V
MLL5222B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.5V
MLL5223B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V
MLL5224B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.8V
MLL5225B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
MLL5226B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
MLL5227B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
MLL5228B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
MLL5229B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MLL5230B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
MLL5231B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
MLL5232B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.8V
MLL5233B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.0V
MLL5234B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
MLL5235B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
MLL5236B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
MLL5237B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
MLL5238B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.7V
MLL5239B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
MLL5240B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
MLL5241B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
MLL5242B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
MLL5243B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
MLL5244B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=14V
MLL5245B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
MLL5246B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
MLL5247B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=17V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MLL5248B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
MLL5249B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=19V
MLL5250B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
MLL5251B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
MLL5252B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
MLL5253B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=25V
MLL5254B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
MLL5255B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=28V
MLL5256B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
MLL5257B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
MLL5258B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
MLL5259B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
MLL5260B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
MLL5261B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
MLL5262B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
MLL5263B	MLL34	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
MM3001	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
MM3002	TO-39	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR



**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MM3005	TO-39	NPN	AUDIO NPN SILICON TRANSISTOR
MM3007	TO-39	NPN	AUDIO NPN SILICON TRANSISTOR
MM3725	TO-39	NPN	SWITCHING NPN SILICON TRANSISTOR
MM4001	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
MM4003	TO-39	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
MM4005	TO-39	PNP	AMPLIFIER PNP SILICON TRANSISTOR
MM4018	TO-39	PNP	PNP RF POWER TRANSISTOR
MM4049	20-03	PNP-CASE	PNP HIGH FREQUENCY TRANSISTOR
MM4209	TO-18	PNP	SWITCHING PNP SILICON TRANSISTOR
MM5007	TO-39	PNP	AUDIO PNP SILICON TRANSISTOR
MM6427	TO-18	DARL-NPN	DARLINGTON NPN SILICON TRANSISTOR
MM8000	TO-39	NPN	NPN AMPLIFIER TRANSISTOR
MM8001	TO-39	NPN	NPN AMPLIFIER TRANSISTOR
MM8009	TO-39	NPN	NPN RF POWER TRANSISTOR
MMAD1103	SO14NB	DIO751-DUAL16	MONOLITHIC DIODE ARRAY
MMAD1104	SO14NB	DIO751-DUAL8	MONOLITHIC DIODE ARRAY
MMAD1105	SO14NB	DIO751-8COMK	MONOLITHIC DIODE ARRAY
MMAD1106	SO14NB	DIO751-8COMA	MONOLITHIC DIODE ARRAY
MMAD1107	SO14NB	DIO751-DUAL8	MONOLITHIC DIODE ARRAY
MMAD1108	SO16NB	DIO751	MONOLITHIC DIODE ARRAY
MMAD1109	SO14NB	DIO751	MONOLITHIC DIODE ARRAY
MMAD130	SO14NB	DIO751-DUAL10	MONOLITHIC DIODE ARRAY
MMBD101LT1	SOT23	DIO318-STYL8	SILICON HOT CARRIER UHF MIXER DIODE
MMBD2835LT1	SOT23	DIO318-STYL12	SILICON DUAL SWITCHING DIODE
MMBD2836LT1	SOT23	DIO318-STYL12	SILICON DUAL SWITCHING DIODE
MMBD2837LT1	SOT23	DIO318-STYL9	SILICON DUAL SWITCHING DIODE
MMBD2838LT1	SOT23	DIO318-STYL9	SILICON DUAL SWITCHING DIODE
MMBD301LT1	SOT23	DIO318-STYL8	SILICON HOT CARRIER DETECTION AND SWITCHING DIODE

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MMBD352LT1	SOT23	DIO318-STYL11	SILICON HOT CARRIER MIXER DIODE
MMBD353LT1	SOT23	DIO318-STYL19	SILICON HOT CARRIER MIXER DIODE
MMBD354LT1	SOT23	DIO318-STYL9	SILICON HOT CARRIER MIXER DIODE
MMBD6050LT1	SOT23	DIO318-STYL8	SILICON SWITCHING DIODE
MMBD6100LT1	SOT23	DIO318-STYL9	SILICON DUAL SWITCHING DIODE
MMBD7000LT1	SOT23	DIO318-STYL11	SILICON DUAL SWITCHING DIODE
MMBD701LT1	SOT23	DIO318-STYL8	SILICON HOT CARRIER DETECTION AND SWITCHING DIODE
MMBD914LT1	SOT23	DIO318-STYL8	SILICON HIGH SPEED SWITCHING DIODE
MMBF170LT1	SOT23	NTMOS	N-CHANNEL, ENHANCEMENT MODE, TMOS FET
MMBF4391LT1	SOT23	NTMOS	N-CHANNEL, ENHANCEMENT MODE, SWITCHING TMOS FET
MMBF4392LT1	SOT23	NTMOS	N-CHANNEL, ENHANCEMENT MODE, SWITCHING TMOS FET
MMBF4393LT1	SOT23	NTMOS	N-CHANNEL, ENHANCEMENT MODE, SWITCHING TMOS FET
MMBF4416LT1	SOT23	NFET	N-CHANNEL, DEPLETION MODE, VHF/UHF AMPLIFIER JFET
MMBF4856LT1	SOT23	NFET	N-CHANNEL, DEPLETION MODE, SWITCHING JFET
MMBF4860LT1	SOT23	NFET	N-CHANNEL, DEPLETION MODE, SWITCHING JFET
MMBF5457LT1	SOT23	NFET	N-CHANNEL, DEPLETION MODE, GENERAL PURPOSE JFET
MMBF5459LT1	SOT23	NFET	N-CHANNEL, DEPLETION MODE, GENERAL PURPOSE JFET
MMBF5460LT1	SOT23	PFET	P-CHANNEL, DEPLETION MODE, GENERAL PURPOSE JFET
MMBF5484LT1	SOT23	NFET	N-CHANNEL, DEPLETION MODE, GENERAL PURPOSE JFET
MMBF5486LT1	SOT23	NFET	N-CHANNEL, DEPLETION MODE, GENERAL PURPOSE JFET
MMBFJ175LT1	SOT23	PFET	P-CHANNEL, DEPLETION MODE, CHOPPER JFET

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MMBFJ177LT1	SOT23	PFET	P-CHANNEL,DEPLETION MODE, CHOPPER JFET
MMBFJ309LT1	SOT23	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
MMBFJ310LT1	SOT23	NFET	N-CHANNEL,DEPLETION MODE, VHF/UHF AMPLIFIER JFET
MMBFU310LT1	SOT23	NFET	N-CHANNEL,DEPLETION MODE, JFET
MMBR2060L	SOT23	NPN	NPN RF AMPLIFIER TRANSISTOR
MMBR2857L	SOT23	NPN	NPN RF AMPLIFIER TRANSISTOR
MMBR4957L	SOT23	PNP	PNP HIGH FREQUENCY TRANSISTOR
MMBR5031L	SOT23	NPN	NPN RF AMPLIFIER TRANSISTOR
MMBR5179L	SOT23	NPN	NPN RF AMPLIFIER TRANSISTOR
MMBR536L	SOT23	PNP	PNP HIGH FREQUENCY TRANSISTOR
MMBR571L	SOT23	NPN	NPN HIGH FREQUENCY TRANSISTOR
MMBR901L	SOT23	NPN	NPN RF AMPLIFIER TRANSISTOR
MMBR911L	SOT23	NPN	NPN HIGH FREQUENCY TRANSISTOR
MMBR920L	SOT23	NPN	NPN RF AMPLIFIER TRANSISTOR
MMBR930L	SOT23	NPN	NPN AMPLIFIER TRANSISTOR
MMBR931L	SOT23	NPN	NPN RF AMPLIFIER TRANSISTOR
MMBR941L	SOT23	NPN	NPN HIGH FREQUENCY TRANSISTOR
MMBR951L	SOT23	NPN	NPN HIGH FREQUENCY TRANSISTOR
MMBT2222ALT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
MMBT2222LT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
MMBT2369ALT1	SOT23	NPN	SWITCHING NPN SILICON TRANSISTOR
MMBT2369LT1	SOT23	NPN	SWITCHING NPN SILICON TRANSISTOR
MMBT2484LT1	SOT23	NPN	LOW NOISE NPN SILICON TRANSISTOR
MMBT2907ALT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
MMBT2907LT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MMBT3640LT1	SOT23	PNP	SWITCHING PNP SILICON TRANSISTOR
MMBT3904LT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
MMBT3906LT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
MMBT404ALT1	SOT23	PNP	CHOPPER PNP SILICON TRANSISTOR
MMBT4401LT1	SOT23	NPN	SWITCHING NPN SILICON TRANSISTOR
MMBT4403LT1	SOT23	PNP	SWITCHING PNP SILICON TRANSISTOR
MMBT5087LT1	SOT23	PNP	LOW NOISE PNP SILICON TRANSISTOR
MMBT5088LT1	SOT23	NPN	LOW NOISE NPN SILICON TRANSISTOR
MMBT5089LT1	SOT23	NPN	LOW NOISE NPN SILICON TRANSISTOR
MMBT5401LT1	SOT23	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
MMBT5550LT1	SOT23	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
MMBT5551LT1	SOT23	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
MMBT6427LT1	SOT23	DARL-NPN	DARLINGTON NPN SILICON TRANSISTOR
MMBT6428LT1	SOT23	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MMBT6429LT1	SOT23	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MMBT6517LT1	SOT23	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
MMBT6520LT1	SOT23	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
MMBT8599LT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
MMBT918LT1	SOT23	NPN	VHF/UHF NPN SILICON TRANSISTOR
MMBTA05LT1	SOT23	NPN	DRIVER NPN SILICON TRANSISTOR
MMBTA06LT1	SOT23	NPN	DRIVER NPN SILICON TRANSISTOR
MMBTA13LT1	SOT23	DARL-NPN	DARLINGTON AMPLIFIER NPN SILICON TRANSISTOR
MMBTA14LT1	SOT23	DARL-NPN	DARLINGTON AMPLIFIER NPN SILICON TRANSISTOR
MMBTA20LT1	SOT23	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
MMBTA42LT1	SOT23	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
MMBTA43LT1	SOT23	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MMBTA55LT1	SOT23	PNP	DRIVER PNP SILICON TRANSISTOR
MMBTA56LT1	SOT23	PNP	DRIVER PNP SILICON TRANSISTOR
MMBTA63LT1	SOT23	DARL-PNP	DARLINGTON PNP SILICON TRANSISTOR
MMBTA64LT1	SOT23	DARL-PNP	DARLINGTON PNP SILICON TRANSISTOR
MMBTA70LT1	SOT23	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
MMBTA92LT1	SOT23	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
MMBTA93LT1	SOT23	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
MMBTH10LT1	SOT23	NPN	VHF/UHF NPN SILICON TRANSISTOR
MMBTH24LT1	SOT23	NPN	VHF MIXER NPN SILICON TRANSISTOR
MMBTH69LT1	SOT23	PNP	UHF/VHF PNP SILICON TRANSISTOR
MMBTH81LT1	SOT23	PNP	UHF/VHF PNP SILICON TRANSISTOR
MMBV105GLT1	SOT23	DIOCAP318-STYL8	2.3 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBV109LT1	SOT23	DIOCAP318-STYL8	29 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBV2101LT1	SOT23	DIOCAP318-STYL8	6.8 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBV2103LT1	SOT23	DIOCAP318-STYL8	10 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBV2104LT1	SOT23	DIOCAP318-STYL8	12 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBV2105LT1	SOT23	DIOCAP318-STYL8	15 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBV2106LT1	SOT23	DIOCAP318-STYL8	15 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBV2107LT1	SOT23	DIOCAP318-STYL8	22 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBV2108LT1	SOT23	DIOCAP318-STYL8	27 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBV2109LT1	SOT23	DIOCAP318-STYL8	33 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBV3102LT1	SOT23	DIOCAP318-STYL8	22 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MMBV3401LT1	SOT23	DIOCAP318-STYL8	SILICON PIN SWITCHING DIODE
MMBV3700LT1	SOT23	DIOCAP318-STYL8	SILICON PIN SWITCHING DIODE
MMBV409LT1	SOT23	DIOCAP318-STYL8	29 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBV432LT1	SOT23	DIOCAP318-STYL9	45 PF, DUAL 14 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBV609LT1	SOT23	DIOCAP318-STYL9	29 PF, DUAL 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBV809LT1	SOT23	DIOCAP318-STYL8	5.3 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MMBZ15VDLT1	SOT23	DIO318-STYL9	TRANSIENT VOLTAGE SUPPRESSOR, VBR=1
MMBZ5221BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=2.4V
MMBZ5222BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=2.5V
MMBZ5223BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V
MMBZ5224BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=2.8V
MMBZ5225BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
MMBZ5226BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
MMBZ5227BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
MMBZ5228BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
MMBZ5229BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
MMBZ5230BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
MMBZ5231BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
MMBZ5232BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=5.8V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MMBZ5233BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=6.0V
MMBZ5234BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
MMBZ5235BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
MMBZ5236BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
MMBZ5237BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
MMBZ5238BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=8.7V
MMBZ5239BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
MMBZ5240BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
MMBZ5241BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
MMBZ5242BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
MMBZ5243BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
MMBZ5244BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=14V
MMBZ5245BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
MMBZ5246BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
MMBZ5247BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=17V
MMBZ5248BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
MMBZ5249BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=19V
MMBZ5250BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=20V



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MMBZ5251BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
MMBZ5252BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
MMBZ5253BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=25V
MMBZ5254BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
MMBZ5255BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=28V
MMBZ5256BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
MMBZ5257BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
MMBZ5258BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
MMBZ5259BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
MMBZ5260BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
MMBZ5261BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
MMBZ5262BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
MMBZ5263BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
MMBZ5264BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=60V
MMBZ5265BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
MMBZ5266BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
MMBZ5267BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
MMBZ5268BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=82V



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MMBZ5269BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=87V
MMBZ5270BL	SOT23	DIO318-STYL8	ZENER VOLTAGE REGULATOR DIODE, VZ=91V
MMFT107T1	SOT223	NTMOS318E-STYL3	N-CHANNEL, ENHANCEMENT MODE, TMOS FET
MMFT6661T1	SOT223	NTMOS318E-STYL3	N-CHANNEL, ENHANCEMENT MODE, TMOS FET
MMFT960T1	SOT223	NTMOS318E-STYL3	N-CHANNEL, ENHANCEMENT MODE, TMOS FET
MMPQ2222	SO16NB	N751B	QUAD GENERAL PURPOSE NPN SILICON TRANSISTOR
MMPQ2222A	SO16NB	N751B	QUAD GENERAL PURPOSE NPN SILICON TRANSISTOR
MMPQ2369	SO16NB	N751B	QUAD SWITCHING NPN SILICON TRANSISTOR
MMPQ2907	SO16NB	P751B	QUAD GENERAL PURPOSE PNP SILICON TRANSISTOR
MMPQ2907A	SO16NB	P751B	QUAD GENERAL PURPOSE PNP SILICON TRANSISTOR
MMPQ3467	SO16NB	P751B	QUAD MEMORY DRIVER PNP SILICON TRANSISTOR
MMPQ3725	SO16NB	N751B	QUAD CORE DRIVER NPN SILICON TRANSISTOR
MMPQ3799	SO16NB	P751B	QUAD AMPLIFIER PNP SILICON TRANSISTOR
MMPQ3904	SO16NB	N751B	QUAD AMPLIFIER/SWITCH NPN SILICON TRANSISTOR
MMPQ3906	SO16NB	P751B	QUAD AMPLIFIER/SWITCH PNP SILICON TRANSISTOR
MMPQ6700	SO16NB	N751B:P751B	QUAD COMPLEMENTARY PAIR PNP/NPN SILICON TRANSISTOR
MMPQ6842	SO16NB	N751B:P751B	QUAD MPU CLOCK BUFFER PNP/NPN SILICON TRANSISTOR
MPF102	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL, DEPLETION MODE, VHF AMPLIFIER JFET
MPF3821	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL, DEPLETION MODE, GENERAL PURPOSE JFET

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MPPF3822	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, GENERAL PURPOSE JFET
MPPF4391	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
MPPF4392	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
MPPF4393	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
MPPF4856	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
MPPF4857	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
MPPF4858	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
MPPF4859	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
MPPF4860	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
MPPF4861	TO-92:TO-92A:TO-92B:TO-92C	NFET	N-CHANNEL,DEPLETION MODE, SWITCHING JFET
MPPF6659	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL,ENHANCEMENT MODE, TMOS FET
MPPF6660	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL,ENHANCEMENT MODE, TMOS FET
MPPF6661	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL,ENHANCEMENT MODE, TMOS FET
MPPF89	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL,ENHANCEMENT MODE, SWITCHING TMOS FET
MPPF910	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL,ENHANCEMENT MODE, SWITCHING TMOS FET
MPPF930	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL,ENHANCEMENT MODE, SWITCHING TMOS FET
MPPF960	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL,ENHANCEMENT MODE, SWITCHING TMOS FET
MPPF970	TO-92:TO-92A:TO-92B:TO-92C	PFET	P-CHANNEL,DEPLETION MODE, SWITCHING JFET

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MPF971	TO-92:TO-92A:TO-92B:TO-92C	PFET	P-CHANNEL,DEPLETION MODE, SWITCHING JFET
MPF990	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL,ENHANCEMENT MODE, SWITCHING TMOS FET
MPN3404	TO-226AC	DIODCAP-182	SILICON PIN SWITCHING DIODE
MPN3700	TO-226AC	DIODCAP-182	SILICON PIN SWITCHING DIODE
MPQ2222	DIP14	N646	QUAD GENERAL PURPOSE NPN SILICON TRANSISTOR
MPQ2222A	DIP14	N646	QUAD GENERAL PURPOSE NPN SILICON TRANSISTOR
MPQ2369	DIP14	N646	QUAD SWITCHING NPN SILICON TRANSISTOR
MPQ2483	DIP14	N646	QUAD AMPLIFIER NPN SILICON TRANSISTOR
MPQ2484	DIP14	N646	QUAD AMPLIFIER NPN SILICON TRANSISTOR
MPQ2906	DIP14	P646	QUAD GENERAL PURPOSE PNP SILICON TRANSISTOR
MPQ2907	DIP14	P646	QUAD GENERAL PURPOSE PNP SILICON TRANSISTOR
MPQ2907A	DIP14	P646	QUAD GENERAL PURPOSE PNP SILICON TRANSISTOR
MPQ3467	DIP14	P646	QUAD MEMORY DRIVER PNP SILICON TRANSISTOR
MPQ3725	DIP14	N646	QUAD CORE DRIVER NPN SILICON TRANSISTOR
MPQ3762	DIP14	P646	QUAD MEMORY DRIVER PNP SILICON TRANSISTOR
MPQ3798	DIP14	P646	QUAD AMPLIFIER PNP SILICON TRANSISTOR
MPQ3799	DIP14	P646	QUAD AMPLIFIER PNP SILICON TRANSISTOR
MPQ3904	DIP14	N646	QUAD AMPLIFIER SWITCHING NPN SILICON TRANSISTOR
MPQ3906	DIP14	P646	QUAD AMPLIFIER SWITCHING PNP SILICON TRANSISTOR
MPQ6001	DIP14	N646:P646	QUAD COMPLEMENTARY PAIR PNP/NPN SILICON TRANSISTOR
MPQ6002	DIP14	N646:P646	QUAD COMPLEMENTARY PAIR PNP/NPN SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MPQ6100A	DIP14	N646:P646	QUAD COMPLEMENTARY PAIR PNP/NPN SILICON TRANSISTOR
MPQ6426	DIP14	DARL646	QUAD DARLINGTON NPN SILICON TRANSISTOR
MPQ6501	DIP14	N646:P646	QUAD COMPLEMENTARY PAIR PNP/NPN SILICON TRANSISTOR
MPQ6502	DIP14	N646:P646	QUAD COMPLEMENTARY PAIR PNP/NPN SILICON TRANSISTOR
MPQ6600A1	DIP14	N646:P646	QUAD COMPLEMENTARY PAIR PNP/NPN SILICON TRANSISTOR
MPQ6700	DIP14	N646:P646	QUAD COMPLEMENTARY PAIR PNP/NPN SILICON TRANSISTOR
MPQ6842	DIP14	N646:P646	QUAD COMPLEMENTARY PAIR PNP/NPN SILICON TRANSISTOR
MPQ7041	DIP14	N646	QUAD AMPLIFIER NPN SILICON TRANSISTOR
MPQ7042	DIP14	N646	QUAD AMPLIFIER NPN SILICON TRANSISTOR
MPQ7043	DIP14	N646	QUAD AMPLIFIER NPN SILICON TRANSISTOR
MPQ7051	DIP14	N646:P646	QUAD COMPLEMENTARY PAIR PNP/NPN SILICON TRANSISTOR
MPQ7091	DIP14	P646	QUAD AMPLIFIER PNP SILICON TRANSISTOR
MPQ7093	DIP14	P646	QUAD AMPLIFIER PNP SILICON TRANSISTOR
MPS-U01	152-02	NPN	NPN AUDIO TRANSISTOR, 30 VOLTS/10 WATT
MPS-U01A	152-02	NPN	NPN AUDIO TRANSISTOR, 40 VOLTS/10 WATT
MPS-U02	152-02	NPN	NPN AMPLIFIER TRANSISTOR, 40 VOLTS/10 WATT
MPS-U03	152-02	NPN	NPN AMPLIFIER TRANSISTOR, 120 VOLTS/10 WATTS
MPS-U04	152-02	NPN	NPN AMPLIFIER TRANSISTOR, 180 VOLTS/10 WATTS
MPS-U05	152-02	NPN	NPN AMPLIFIER TRANSISTOR, 60 VOLTS/10 WATTS
MPS-U06	152-02	NPN	NPN AMPLIFIER TRANSISTOR, 80 VOLTS/10 WATTS
MPS-U07	152-02	NPN	NPN AMPLIFIER TRANSISTOR, 100 VOLTS/10 WATTS

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MPS-U10	152-02	NPN	NPN AMPLIFIER TRANSISTOR, 300 VOLTS/10 WATTS
MPS-U45	152-02	DARL-NPN	NPN DARLINGTON,40 VOLTS/10 WATT
MPS-U51	152-02	PNP	PNP AUDIO TRANSISTOR, 30 VOLTS/10 WATT
MPS-U51A	152-02	PNP	PNP AUDIO TRANSISTOR, 40 VOLTS/10 WATT
MPS-U52	152-02	PNP	PNP AMPLIFIER TRANSISTOR, 40 VOLTS/10 WATT
MPS-U55	152-02	PNP	PNP AMPLIFIER TRANSISTOR, 60 VOLTS/10 WATT
MPS-U56	152-02	PNP	PNP AMPLIFIER TRANSISTOR, 80 VOLTS/10 WATT
MPS-U57	152-02	PNP	PNP AMPLIFIER TRANSISTOR, 100 VOLTS/10 WATT
MPS-U60	152-02	PNP	PNP AMPLIFIER TRANSISTOR, 300 VOLTS/10 WATT
MPS-U95	152-02	DARL-PNP	PNP AMPLIFIER TRANSISTOR, 40 VOLTS/10 WATT
MPS1983	TO-92	NPN	NPN HIGH FREQUENCY TRANSISTOR
MPS2222	TO-92:TO-92A:TO-92B:TO-92C	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
MPS2222A	TO-92:TO-92A:TO-92B:TO-92C	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
MPS2369	TO-92:TO-92A:TO-92B:TO-92C	NPN	SWITCHING NPN SILICON TRANSISTOR
MPS2369A	TO-92:TO-92A:TO-92B:TO-92C	NPN	SWITCHING NPN SILICON TRANSISTOR
MPS2907	TO-92:TO-92A:TO-92B:TO-92C	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
MPS2907A	TO-92:TO-92A:TO-92B:TO-92C	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
MPS3563	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS3568	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MPS3638	TO-92:TO-92A:TO-92B:TO-92C	PNP	SWITCHING PNP SILICON TRANSISTOR
MPS3638A	TO-92:TO-92A:TO-92B:TO-92C	PNP	SWITCHING PNP SILICON TRANSISTOR
MPS3640	TO-92:TO-92A:TO-92B:TO-92C	PNP	SWITCHING PNP SILICON TRANSISTOR
MPS3646	TO-92:TO-92A:TO-92B:TO-92C	NPN	SWITCHING NPN SILICON TRANSISTOR
MPS3866	TO-92	NPN	NPN HIGH FREQUENCY TRANSISTOR
MPS3904	TO-92:TO-92A:TO-92B:TO-92C	NPN	GENERAL PURPOSE NPN SILICON TRANSISTOR
MPS3906	TO-92:TO-92A:TO-92B:TO-92C	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
MPS404A	TO-92:TO-92A:TO-92B:TO-92C	PNP	CHOPPER PNP SILICON TRANSISTOR
MPS4123	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS4124	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS4125	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
MPS4126	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
MPS4249	TO-92:TO-92A:TO-92B:TO-92C	PNP	PNP SILICON TRANSISTOR
MPS4250	TO-92:TO-92A:TO-92B:TO-92C	PNP	PNP SILICON TRANSISTOR
MPS4258	TO-92:TO-92A:TO-92B:TO-92C	PNP	SWITCHING PNP SILICON TRANSISTOR
MPS5179	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH FREQUENCY NPN SILICON TRANSISTOR
MPS536	TO-92	PNP	PNP HIGH FREQUENCY TRANSISTOR
MPS571	TO-92	NPN	NPN HIGH FREQUENCY TRANSISTOR
MPS5771	TO-92:TO-92A:TO-92B:TO-92C	PNP	SWITCHING PNP SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MPS6428	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS650	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS6507	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS651	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS6520	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS6521	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS6523	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
MPS6530	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS6531	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS6534	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
MPS6560	TO-92:TO-92A:TO-92B:TO-92C	NPN	AUDIO NPN SILICON TRANSISTOR
MPS6562	TO-92:TO-92A:TO-92B:TO-92C	PNP	AUDIO PNP SILICON TRANSISTOR
MPS6568A	TO-92:TO-92A:TO-92B:TO-92C	NPN	VHF NPN SILICON TRANSISTOR
MPS6571	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS6595	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS6601	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS6602	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS6651	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MPS6652	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
MPS6714	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT AMPLIFIER NPN SILICON TRANSISTOR
MPS6715	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT AMPLIFIER NPN SILICON TRANSISTOR
MPS6716	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT AMPLIFIER NPN SILICON TRANSISTOR
MPS6717	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT AMPLIFIER NPN SILICON TRANSISTOR
MPS6724	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	ONE WATT DARLINGTON NPN SILICON TRANSISTOR
MPS6725	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	ONE WATT DARLINGTON NPN SILICON TRANSISTOR
MPS6726	TO-92:TO-92A:TO-92B:TO-92C	PNP	ONE WATT AMPLIFIER PNP SILICON TRANSISTOR
MPS6727	TO-92:TO-92A:TO-92B:TO-92C	PNP	ONE WATT AMPLIFIER PNP SILICON TRANSISTOR
MPS750	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
MPS751	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
MPS8093	TO-92:TO-92A:TO-92B:TO-92C	PNP	GENERAL PURPOSE PNP SILICON TRANSISTOR
MPS8098	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS8099	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPS8598	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
MPS8599	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
MPS901	TO-92	NPN	NPN HIGH FREQUENCY TRANSISTOR
MPS911	TO-92	NPN	NPN HIGH FREQUENCY TRANSISTOR
MPS918	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR



**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MPSA05	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPSA06	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPSA13	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	DARLINGTON NPN SILICON TRANSISTOR
MPSA14	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	DARLINGTON NPN SILICON TRANSISTOR
MPSA16	TO-92:TO-92A:TO-92B:TO-92C	NPN	CHOPPER NPN SILICON TRANSISTOR
MPSA17	TO-92:TO-92A:TO-92B:TO-92C	NPN	CHOPPER NPN SILICON TRANSISTOR
MPSA18	TO-92:TO-92A:TO-92B:TO-92C	NPN	LOW NOISE NPN SILICON TRANSISTOR
MPSA20	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPSA27	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	DARLINGTON NPN SILICON TRANSISTOR
MPSA28	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	DARLINGTON NPN SILICON TRANSISTOR
MPSA29	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	DARLINGTON NPN SILICON TRANSISTOR
MPSA42	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
MPSA43	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
MPSA44	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
MPSA55	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
MPSA56	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
MPSA62	TO-92:TO-92A:TO-92B:TO-92C	DARL-PNP	DARLINGTON PNP SILICON TRANSISTOR
MPSA63	TO-92:TO-92A:TO-92B:TO-92C	DARL-PNP	DARLINGTON PNP SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MPSA64	TO-92:TO-92A:TO-92B:TO-92C	DARL-PNP	DARLINGTON PNP SILICON TRANSISTOR
MPSA70	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
MPSA75	TO-92:TO-92A:TO-92B:TO-92C	DARL-PNP	DARLINGTON PNP SILICON TRANSISTOR
MPSA77	TO-92:TO-92A:TO-92B:TO-92C	DARL-PNP	DARLINGTON PNP SILICON TRANSISTOR
MPSA92	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
MPSA93	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
MPSH04	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPSH07A	TO-92:TO-92A:TO-92B:TO-92C	NPN	FM/VHF NPN SILICON TRANSISTOR
MPSH10	TO-92:TO-92A:TO-92B:TO-92C	NPN	VHF/UHF NPN SILICON TRANSISTOR
MPSH11	TO-92:TO-92A:TO-92B:TO-92C	NPN	VHF/UHF NPN SILICON TRANSISTOR
MPSH17	TO-92:TO-92A:TO-92B:TO-92C	NPN	CATV NPN SILICON TRANSISTOR
MPSH20	TO-92:TO-92A:TO-92B:TO-92C	NPN	VHF NPN SILICON TRANSISTOR
MPSH24	TO-92:TO-92A:TO-92B:TO-92C	NPN	VHF NPN SILICON TRANSISTOR
MPSH34	TO-92:TO-92A:TO-92B:TO-92C	NPN	IF NPN SILICON TRANSISTOR
MPSH69	TO-92:TO-92A:TO-92B:TO-92C	PNP	RF AMPLIFIER PNP SILICON TRANSISTOR
MPSH81	TO-92:TO-92A:TO-92B:TO-92C	PNP	RF AMPLIFIER PNP SILICON TRANSISTOR
MPSL01	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
MPSL51	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MPSW01	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT HIGH CURRENT NPN SILICON TRANSISTOR
MPSW01A	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT HIGH CURRENT NPN SILICON TRANSISTOR
MPSW05	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT AMPLIFIER NPN SILICON TRANSISTOR
MPSW10	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT HIGH VOLTAGE NPN SILICON TRANSISTOR
MPSW13	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	ONE WATT DARLINGTON NPN SILICON TRANSISTOR
MPSW14	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	ONE WATT DARLINGTON NPN SILICON TRANSISTOR
MPSW42	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT HIGH VOLTAGE NPN SILICON TRANSISTOR
MPSW45	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	ONE WATT DARLINGTON NPN SILICON TRANSISTOR
MPSW45A	TO-92:TO-92A:TO-92B:TO-92C	DARL-NPN	ONE WATT DARLINGTON NPN SILICON TRANSISTOR
MPSW51	TO-92:TO-92A:TO-92B:TO-92C	PNP	ONE WATT HIGH CURRENT PNP SILICON TRANSISTOR
MPSW51A	TO-92:TO-92A:TO-92B:TO-92C	PNP	ONE WATT HIGH CURRENT PNP SILICON TRANSISTOR
MPSW55	TO-92:TO-92A:TO-92B:TO-92C	PNP	ONE WATT AMPLIFIER PNP SILICON TRANSISTOR
MPSW56	TO-92:TO-92A:TO-92B:TO-92C	PNP	ONE WATT AMPLIFIER PNP SILICON TRANSISTOR
MPSW63	TO-92:TO-92A:TO-92B:TO-92C	DARL-PNP	ONE WATT DARLINGTON PNP SILICON TRANSISTOR
MPSW64	TO-92:TO-92A:TO-92B:TO-92C	DARL-PNP	ONE WATT DARLINGTON PNP SILICON TRANSISTOR
MPSW92	TO-92:TO-92A:TO-92B:TO-92C	PNP	ONE WATT HIGH VOLTAGE PNP SILICON TRANSISTOR
MR2535L	194-04	ZENER	OVERVOLTAGE TRANSIENT SUPPRESSOR, VR=20V
MRD150	173-01	NPN	PHOTO DETECTOR, TRANSISTOR OUTPUT
MRD300	82-05	NPN	PHOTO DETECTOR, TRANSISTOR OUTPUT

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MRD3010	82-05	TRIAC-DET	PHOTO DETECTOR, TRIAC DRIVER OUTPUT
MRD3050	82-05	NPN	PHOTO DETECTOR, TRANSISTOR OUTPUT
MRD3051	82-05	NPN	PHOTO DETECTOR, TRANSISTOR OUTPUT
MRD3054	82-05	NPN	PHOTO DETECTOR, TRANSISTOR OUTPUT
MRD3055	82-05	NPN	PHOTO DETECTOR, TRANSISTOR OUTPUT
MRD3056	82-05	NPN	PHOTO DETECTOR, TRANSISTOR OUTPUT
MRD310	82-05	NPN	PHOTO DETECTOR, TRANSISTOR OUTPUT
MRD360	82-05	DARL-DET	PHOTO DETECTOR, DARLINGTON OUTPUT
MRD370	82-05	DARL-DET	PHOTO DETECTOR, DARLINGTON OUTPUT
MRD500	209-01	LED	PHOTO DETECTOR, DIODE OUTPUT
MRD5009	82-05	PHO-DET	PHOTO DETECTOR, LOGIC OUTPUT
MRD510	210-01	LED	PHOTO DETECTOR, DIODE OUTPUT
MRD711	349-01	PHOTO-DARL	PHOTO DETECTOR, DARLINGTON OUTPUT
MRD721	349-01	LED	PHOTO DETECTOR, PIN DIODE OUTPUT
MRD750	349C-01	PHO-DET	PHOTO DETECTOR, LOGIC OUTPUT
MRD821	381-01	LED	PHOTO DETECTOR, DIODE OUTPUT
MRF0211L	SOT143	NPN-4E	NPN HIGH FREQUENCY TRANSISTOR
MRF211L	SOT143	PNP-4E	PNP HIGH FREQUENCY TRANSISTOR
MRF227	TO-39	NPN	NPN RF POWER TRANSISTOR
MRF229	TO-39	NPN	NPN RF POWER TRANSISTOR
MRF237	TO-39	NPN	NPN RF POWER TRANSISTOR
MRF260	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF261	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF262	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF264	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF340	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF342	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF344	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF3866	SO8NB	NPN-8PIN	NPN HIGH FREQUENCY TRANSISTOR
MRF4427	SO8NB	NPN-8PIN	NPN RF LOW POWER TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MRF475	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF476	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF477	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF479	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF485	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF486	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF497	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF501	20-03	NPN-CASE	NPN HIGH FREQUENCY TRANSISTOR
MRF502	20-03	NPN-CASE	NPN HIGH FREQUENCY TRANSISTOR
MRF515	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
MRF5160	SO8NB	PNP-8PIN	PNP HIGH FREQUENCY TRANSISTOR
MRF517	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
MRF524	20-03	PNP-CASE	PNP HIGH FREQUENCY TRANSISTOR
MRF525	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
MRF531	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
MRF534	TO-18	PNP	PNP HIGH FREQUENCY TRANSISTOR
MRF544	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
MRF545	TO-39	PNP	PNP HIGH FREQUENCY TRANSISTOR
MRF5583	SO8NB	PNP-8PIN	PNP HIGH FREQUENCY TRANSISTOR
MRF5711L	SOT143	NPN-4E	NPN HIGH FREQUENCY TRANSISTOR
MRF5812	SO8NB	NPN-8PIN	NPN LOW POWER TRANSISTOR
MRF586	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
MRF5943	SO8NB	NPN-8PIN	NPN HIGH FRQUENCY TRANSISTOR
MRF604	26-03	NPN	NPN RF POWER TRANSISTOR
MRF607	TO-39	NPN	NPN RF POWER TRANSISTOR
MRF630	TO-39	NPN	NPN RF POWER TRANSISTOR
MRF660	TO-220AB	NPN-4E	NPN RF POWER TRANSISTOR
MRF8372	SO8NB	NPN-8PIN	NPN HIGH FRQUENCY TRANSISTOR
MRF9011L	SOT143	NPN-4E	NPN HIGH FREQUENCY TRANSISTOR
MRF904	20-03	NPN-CASE	NPN HIGH FREQUENCY TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MRF905	26-03	NPN	NPN RF OSCILLATOR TRANSISTOR
MRF914	20-03	NPN-CASE	NPN HIGH FREQUENCY TRANSISTOR
MRF9331L	SOT143	NPN-4E	NPN HIGH FREQUENCY TRANSISTOR
MRF941L	SOT143	NPN-4E	NPN HIGH FREQUENCY TRANSISTOR
MRF951L	SOT143	NPN-4E	NPN HIGH FREQUENCY TRANSISTOR
MRF965	26-03	NPN	NPN HIGH FREQUENCY TRANSISTOR
MRFQ17	SO8NB	NPN-8PIN	NPN HIGH FREQUENCY TRANSISTOR
MRFQ19	SO8NB	NPN-8PIN	NPN HIGH FREQUENCY TRANSISTOR
MSA1022-BT1	318D-03	PNP	SURFACE MOUNT RF AMPLIFIER PNP SILICON TRANSISTOR
MSA1022-CT1	318D-03	PNP	SURFACE MOUNT RF AMPLIFIER PNP SILICON TRANSISTOR
MSB709-RT1	318D-03	PNP	SURFACE MOUNT GENERAL PURPOSE AMPLIFIER PNP TRANSISTOR
MSB709-ST1	318D-03	PNP	SURFACE MOUNT GENERAL PURPOSE AMPLIFIER PNP TRANSISTOR
MSB710-QT1	318D-03	PNP	SURFACE MOUNT GENERAL PURPOSE AMPLIFIER PNP TRANSISTOR
MSB710-RT1	318D-03	PNP	SURFACE MOUNT GENERAL PURPOSE AMPLIFIER PNP TRANSISTOR
MSC1621T1	318D-03	NPN	SURFACE MOUNT SWITCHING NPN TRANSISTOR
MSC2295-BT1	318D-03	NPN	SURFACE MOUNT RF AMPLIFIER NPN TRANSISTOR
MSC2295-CT1	318D-03	NPN	SURFACE MOUNT RF AMPLIFIER NPN TRANSISTOR
MSC2404-CT1	318D-03	NPN	SURFACE MOUNT RF AMPLIFIER NPN TRANSISTOR
MSC3130T1	318D-03	NPN	SURFACE MOUNT RF AMPLIFIER NPN TRANSISTOR
MSD1328-RT1	318D-03	NPN	SURFACE MOUNT LOW VOLTAGE OUTPUT AMP. NPN TRANSISTOR
MSD601-RT1	318D-03	NPN	SURFACE MOUNT GENERAL PURPOSE AMPLIFIER NPN TRANSISTOR

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MSD601-ST1	318D-03	NPN	SURFACE MOUNT GENERAL PURPOSE AMPLIFIER NPN TRANSISTOR
MSD602-ST1	318D-03	NPN	SURFACE MOUNT GENERAL PURPOSE AMPLIFIER NPN TRANSISTOR
MSD6100	TO-92:TO-92A:TO-92B:TO-92C	DIO29-STYL3	SWITCHING DIODE COMMON CATHODE
MSD6150	TO-92:TO-92A:TO-92B:TO-92C	DIO29-STYL4	DUAL DIODE COMMON ANODE
MU10	TO-92	PN-UJT	PN UNIUNCTION TRANSISTOR
MU4891	TO-92	PN-UJT	PN UNIUNCTION TRANSISTOR
MU4892	TO-92	PN-UJT	PN UNIUNCTION TRANSISTOR
MU4893	TO-92	PN-UJT	PN UNIUNCTION TRANSISTOR
MUN2111T1	318D-03	P318DRES	SURFACE MOUNT BIAS RESISTOR PNP TRANSISTOR
MUN2112T1	318D-03	P318DRES	SURFACE MOUNT BIAS RESISTOR PNP TRANSISTOR
MUN2113T1	318D-03	P318DRES	SURFACE MOUNT BIAS RESISTOR PNP TRANSISTOR
MUN2211T1	318D-03	N318DRES	SURFACE MOUNT BIAS RESISTOR NPN TRANSISTOR
MUN2212T1	318D-03	N318DRES	SURFACE MOUNT BIAS RESISTOR NPN TRANSISTOR
MUN2213T1	318D-03	N318DRES	SURFACE MOUNT BIAS RESISTOR NPN TRANSISTOR
MV104	TO-92:TO-92A:TO-92B:TO-92C	DIOCAP29-STYL15	DUAL VOLTAGE VARIABLE CAPACITANCE DIODE
MV1401	146-01	DIOCAP-51	550 PF, 12 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1401H	146-01	DIOCAP-51	550 PF, 12 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1403	DO7	DIOCAP-51	175 PF, 12 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1403H	DO7	DIOCAP-51	175 PF, 12 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MV1404	DO7	DIOCAP-51	120 PF, 12 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1404H	DO7	DIOCAP-51	120 PF, 12 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1405	DO7	DIOCAP-51	250 PF, 12 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1405H	DO7	DIOCAP-51	250 PF, 12 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1620	DO7	DIOCAP-51	6.8 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1624	DO7	DIOCAP-51	10 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1626	DO7	DIOCAP-51	12 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1628	DO7	DIOCAP-51	15 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1630	DO7	DIOCAP-51	18 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1634	DO7	DIOCAP-51	22 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1636	DO7	DIOCAP-51	27 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1638	DO7	DIOCAP-51	33 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1640	DO7	DIOCAP-51	39 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1642	DO7	DIOCAP-51	47 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1644	DO7	DIOCAP-51	56 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1648	DO7	DIOCAP-51	82 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV1650	DO7	DIOCAP-51	100 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV209	TO-226AC	DIOCAP-182	29 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE



**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MV2101	TO-226AC	DIOCAP-182	6.8 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV2103	TO-226AC	DIOCAP-182	10 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV2104	TO-226AC	DIOCAP-182	12 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV2105	TO-226AC	DIOCAP-182	15 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV2106	TO-226AC	DIOCAP-182	15 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV2107	TO-226AC	DIOCAP-182	22 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV2108	TO-226AC	DIOCAP-182	27 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV2109	TO-226AC	DIOCAP-182	33 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV2111	TO-226AC	DIOCAP-182	47 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV2113	TO-226AC	DIOCAP-182	68 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV2114	TO-226AC	DIOCAP-182	82 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV2115	TO-226AC	DIOCAP-182	100 PF, 30 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV409	TO-226AC	DIOCAP-182	29 PF, 20 VOLT, VOLTAGE VARIABLE CAPACITANCE DIODE
MV7005T1	SOT223	DIOCAP318E-STYL2	SURFACE MOUNT, HIGH CAP., VOLTAGE VARIABLE CAP. DIODE
MV7005T3	SOT223	DIOCAP318E-STYL2	SURFACE MOUNT, HIGH CAP., VOLTAGE VARIABLE CAP. DIODE
MVAM108	TO-226AC	DIOCAP-182	12V TUNING DIODE WITH VERY HIGH CAPACITANCE RATIO
MVAM109	TO-226AC	DIOCAP-182	15V TUNING DIODE WITH VERY HIGH CAPACITANCE RATIO
MVAM115	TO-226AC	DIOCAP-182	18V TUNING DIODE WITH VERY HIGH CAPACITANCE RATIO

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MVAM125	TO-226AC	DIOCAP-182	28V TUNING DIODE WITH VERY HIGH CAPACITANCE RATIO
MZ4099	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
MZ4100	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
MZ4101	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
MZ4102	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.7V
MZ4103	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
MZ4104	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
MZ4614	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=1.8V
MZ4615	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.0V
MZ4616	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.2V
MZ4617	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.4V
MZ4618	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V
MZ4619	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
MZ4620	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
MZ4621	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
MZ4622	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
MZ4623	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
MZ4624	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MZ4625	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
MZ4626	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
MZ4627	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
MZ5520B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
MZ5521B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
MZ5522B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
MZ5523B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
MZ5524B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
MZ5525B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
MZ5526B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
MZ5527B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
MZ5528B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
MZ5529B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
MZ5530B	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
MZD10	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
MZD100	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
MZD11	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
MZD110	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MZD12	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
MZD120	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
MZD13	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
MZD130	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
MZD15	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
MZD150	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
MZD16	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
MZD160	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
MZD18	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
MZD180	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
MZD20	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
MZD200	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
MZD22	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
MZD24	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
MZD27	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
MZD3.9	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
MZD30	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
MZD33	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MZD36	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
MZD39	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
MZD4.3	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
MZD4.7	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
MZD43	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
MZD47	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
MZD5.1	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
MZD5.6	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
MZD51	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
MZD56	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
MZD6.2	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
MZD6.8	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
MZD62	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
MZD68	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
MZD7.5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
MZD75	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
MZD8.2	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
MZD82	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=82V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MZD9.1	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
MZD91	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=91V
MZP4728A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
MZP4729A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
MZP4730A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
MZP4731A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
MZP4732A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
MZP4733A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
MZP4734A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
MZP4735A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
MZP4736A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
MZP4737A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
MZP4738A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
MZP4739A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
MZP4740A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
MZP4741A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
MZP4742A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
MZP4743A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
MZP4744A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
MZP4745A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
MZP4746A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
MZP4747A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
MZP4748A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
MZP4749A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
MZP4750A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
MZP4751A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
MZP4752A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
MZP4753A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
MZP4754A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
MZP4755A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
MZP4756A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
MZP4757A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
MZP4758A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
MZP4759A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
MZP4760A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
MZP4761A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=75V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MZP4762A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=82V
MZP4763A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=91V
MZP4764A	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
MZPY10	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V
MZPY100	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=100V
MZPY11	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
MZPY12	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
MZPY13	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
MZPY15	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
MZPY16	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
MZPY18	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
MZPY20	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
MZPY22	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
MZPY24	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
MZPY27	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
MZPY3.9	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
MZPY30	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
MZPY33	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MZPY36	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=36V
MZPY39	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=39V
MZPY4.3	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V
MZPY4.7	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
MZPY43	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=43V
MZPY47	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=47V
MZPY5.1	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
MZPY5.6	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
MZPY51	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=51V
MZPY56	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=56V
MZPY6.2	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
MZPY6.8	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
MZPY62	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=62V
MZPY68	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=68V
MZPY7.5	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
MZPY75	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=75V
MZPY8.2	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
MZPY82	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=82V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
MZPY9.1	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V
MZPY91	DO41	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=91V
P2N2222A	TO-92:TO-92A:TO-92B:TO-92C	NPN	AMPLIFIER NPN SILICON TRANSISTOR
P2N2907A	TO-92:TO-92A:TO-92B:TO-92C	PNP	AMPLIFIER PNP SILICON TRANSISTOR
P2N3019	TO-92:TO-92A:TO-92B:TO-92C	NPN	ONE WATT AMPLIFIER NPN SILICON TRANSISTOR
P2N4033	TO-92:TO-92A:TO-92B:TO-92C	PNP	ONE WATT AMPLIFIER PNP SILICON TRANSISTOR
P6KE10	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=100V
P6KE100	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=100V
P6KE100A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=100V
P6KE10A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=100V
P6KE11	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=110V
P6KE110	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=110V
P6KE110A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=110V
P6KE11A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=110V
P6KE12	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=120V
P6KE120	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=120V
P6KE120A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=120V
P6KE12A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=120V
P6KE13	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=130V
P6KE130	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=130V
P6KE130A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=130V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
P6KE13A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=130V
P6KE15	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=150V
P6KE150	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=150V
P6KE150A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=150V
P6KE15A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=150V
P6KE16	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=160V
P6KE160	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=160V
P6KE160A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=160V
P6KE16A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=160V
P6KE170	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=170V
P6KE170A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=170V
P6KE18	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=180V
P6KE180	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=180V
P6KE180A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=180V
P6KE18A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=180V
P6KE20	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=200V
P6KE200	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=200V
P6KE200A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=200V
P6KE20A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=200V
P6KE22	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=220V
P6KE22A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=220V
P6KE24	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=240V
P6KE24A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=240V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
P6KE27	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
P6KE27A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=2
P6KE30	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
P6KE30A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
P6KE33	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
P6KE33A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
P6KE36	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
P6KE36A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
P6KE39	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
P6KE39A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=3
P6KE43	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=4
P6KE43A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=4
P6KE47	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=4
P6KE47A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=4
P6KE51	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=5
P6KE51A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=5
P6KE56	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=5
P6KE56A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=5
P6KE6.8	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6.8V
P6KE6.8A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6.8V
P6KE62	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6
P6KE62A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6
P6KE68	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6
P6KE68A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=6
P6KE7.5	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=7.5V
P6KE7.5A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=7.5V
P6KE75	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=7

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
P6KE75A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=7
P6KE8.2	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=8.2V
P6KE8.2A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=8.2V
P6KE82	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=8
P6KE82A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=8
P6KE9.1	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=9.1V
P6KE9.1A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=9.1V
P6KE91	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=9
P6KE91A	17-02	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VBR=9
P6SMB100A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=100
P6SMB10A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=10
P6SMB110A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=110
P6SMB11A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=11
P6SMB120A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=120
P6SMB12A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=12
P6SMB130A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=130
P6SMB13A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=13
P6SMB150A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=150
P6SMB15A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=15
P6SMB160A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=160
P6SMB16A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=16
P6SMB170A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=170
P6SMB180A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=180
P6SMB18A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=18
P6SMB200A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=200
P6SMB20A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=20
P6SMB22A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=22

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
P6SMB24A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=24
P6SMB27A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=27
P6SMB30A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=30
P6SMB33A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=33
P6SMB36A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=36
P6SMB39A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=39
P6SMB43A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=43
P6SMB47A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=47
P6SMB51A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=51
P6SMB56A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=56
P6SMB6.8A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=6.8
P6SMB62A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=62
P6SMB68A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=68
P6SMB7.5A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=7.5
P6SMB75A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=75
P6SMB8.2A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=8.2
P6SMB82A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=82
P6SMB9.1A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=9.1
P6SMB91A	SMB	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VR=91
PBF259	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
PBF259RS	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
PBF259S	TO-92:TO-92A:TO-92B:TO-92C	NPN	HIGH VOLTAGE NPN SILICON TRANSISTOR
PBF493	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
PBF493R	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
PBF493RS	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR

Table 8-1. Motor-tx Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
PBF493S	TO-92:TO-92A:TO-92B:TO-92C	PNP	HIGH VOLTAGE PNP SILICON TRANSISTOR
PT4579	TO-39	NPN	NPN HIGH FREQUENCY TRANSISTOR
PZT2222AT1	SOT223	N318E-STYL1	SURFACE MOUNT NPN SILICON TRANSISTOR
PZT2907AT1	SOT223	P318E-STYL1	SURFACE MOUNT PNP SILICON TRANSISTOR
PZTA42T1	SOT223	N318E-STYL1	SURFACE MOUNT HIGH VOLTAGE NPN SILICON TRANSISTOR
PZTA64T1	SOT223	PDARL318E	SURFACE MOUNT DARLINGTON PNP SILICON TRANSISTOR
PZTA92T1	SOT223	P318E-STYL1	SURFACE MOUNT HIGH VOLTAGE PNP SILICON TRANSISTOR
PZTA96T1	SOT223	P318E-STYL1	SURFACE MOUNT HIGH VOLTAGE PNP SILICON TRANSISTOR
SA10	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=10.0V
SA100	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=100.0V
SA100A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=100.0V
SA10A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=10.0V
SA11	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=11.0V
SA110	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=110.0V
SA110A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=110.0V
SA11A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=11.0V
SA12	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=12.0V
SA120	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=120.0V
SA120A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=120.0V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
SA12A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=12.0V
SA13	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=13.0V
SA130	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=130.0V
SA130A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=130.0V
SA13A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=13.0V
SA14	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=14.0V
SA14A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=14.0V
SA15	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=15.0V
SA150	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=150.0V
SA150A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=150.0V
SA15A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=15.0V
SA16	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=16.0V
SA160	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=160.0V
SA160A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=160.0V
SA16A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=16.0V
SA17	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=17.0V
SA170	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=170.0V
SA170A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=170.0V



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
SA17A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=17.0V
SA18	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=18.0V
SA18A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=18.0V
SA20	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=20.0V
SA20A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=20.0V
SA22	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=22.0V
SA22A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=22.0V
SA24	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=24.0V
SA24A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=24.0V
SA26	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=26.0V
SA26A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=26.0V
SA28	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=28.0V
SA28A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=28.0V
SA30	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=30.0V
SA30A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=30.0V
SA33	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=33.0V
SA33A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=33.0V
SA36	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=36.0V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
SA36A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=36.0V
SA40	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=40.0V
SA40A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=40.0V
SA43	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=43.0V
SA43A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=43.0V
SA45	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=45.0V
SA45A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=45.0V
SA48	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=48.0V
SA48A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=48.0V
SA5.0	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=5.0V
SA5.0A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=5.0V
SA51	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=51.0V
SA51A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=51.0V
SA54	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=54.0V
SA54A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=54.0V
SA58	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=58.0V
SA58A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=58.0V
SA6.0	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=6.0V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
SA6.0A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=6.0V
SA6.5	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=6.5V
SA6.5A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=6.5V
SA60	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=60.0V
SA60A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=60.0V
SA64	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=64.0V
SA64A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=64.0V
SA7.0	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=7.0V
SA7.0A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=7.0V
SA7.5	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=7.5V
SA7.5A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=7.5V
SA70	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=70.0V
SA70A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=70.0V
SA75	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=75.0V
SA75A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=75.0V
SA78	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=78.0V
SA78A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=78.0V
SA8.0	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=8.0V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
SA8.0A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=8.0V
SA8.5	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=8.5V
SA8.5A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=8.5V
SA85	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=85.0V
SA85A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=85.0V
SA9.0	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=9.0V
SA9.0A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=9.0V
SA90	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=90.0V
SA90A	DO41	ZENER	TRANSIENT VOLTAGE SUPPRESSOR, VRWM=90.0V
SC141B	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
SC141D	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
SC141M	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
SC141N	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
SC143B	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
SC143D	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
SC143E	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=500V
SC143M	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
SC146B	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
SC146D	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
SC146M	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
SC146N	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
SC149B	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
SC149D	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
SC149E	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=500V
SC149M	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
SC260B	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=200V
SC260B3	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=200V
SC260D	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=400V
SC260D3	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=400V
SC260M	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=600V
SC260M3	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=600V
T2322B	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
T2322D	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
T2322M	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
T2323B	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
T2323D	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
T2323M	TO-225AA	TRIAC	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
T2500B	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
T2500BFP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=200V
T2500D	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
T2500DFP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=400V
T2500M	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
T2500MFP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=600V
T2500N	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
T2500NFP	221C-02	TRIAC	TRIAC,BIDIRECTIONAL THYRISTOR, VDRM=800V
T2800B	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
T2800D	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
T2800M	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
T2801B	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
T2801D	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V
T2801M	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
T2801N	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=800V
T2802B	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=200V
T2802D	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=400V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
T2802M	TO-220AB	TRIAC-4	TRIAC; BIDIRECTIONAL THYRISTOR, VDRM=600V
T6410B	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=200V
T6410D	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=400V
T6410M	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=600V
T6410N	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=800V
T6411B	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=200V
T6411D	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=400V
T6411M	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=600V
T6411N	263-04	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=800V
T6420B	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=200V
T6420D	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=400V
T6420M	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=600V
T6420N	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=800V
T6421B	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=200V
T6421D	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=400V
T6421M	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=600V
T6421N	311-02	TRIAC	TRIAC; BIDIRECTIONAL TRIODE THYRISTOR, VDRM=800V
TIP100	TO-220AB	DARL-NPN	NPN DARLINGTON, 60 VOLTS/80 WATT
TIP101	TO-220AB	DARL-NPN	NPN DARLINGTON, 80 VOLTS/80 WATT

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
TIP102	TO-220AB	DARL-NPN	NPN DARLINGTON, 100 VOLTS/80 WATT
TIP105	TO-220AB	DARL-PNP	PNP DARLINGTON, 60 VOLTS/80 WATT
TIP106	TO-220AB	DARL-PNP	PNP DARLINGTON, 80 VOLTS/80 WATT
TIP107	TO-220AB	DARL-PNP	PNP DARLINGTON, 100 VOLTS/80 WATT
TIP110	TO-220AB	DARL-NPN	NPN DARLINGTON, 60 VOLTS/50 WATT
TIP111	TO-220AB	DARL-NPN	NPN DARLINGTON, 80 VOLTS/50 WATT
TIP112	TO-220AB	DARL-NPN	NPN DARLINGTON, 100 VOLTS/50 WATT
TIP115	TO-220AB	DARL-PNP	PNP DARLINGTON, 60 VOLTS/50 WATT
TIP116	TO-220AB	DARL-PNP	PNP DARLINGTON, 80 VOLTS/50 WATT
TIP117	TO-220AB	DARL-PNP	PNP DARLINGTON, 100 VOLTS/50 WATT
TIP120	TO-220AB	DARL-NPN	NPN DARLINGTON, 60 VOLTS/65 WATT
TIP121	TO-220AB	DARL-NPN	NPN DARLINGTON, 80 VOLTS/65 WATT
TIP122	TO-220AB	DARL-NPN	NPN DARLINGTON, 100 VOLTS/65 WATT
TIP125	TO-220AB	DARL-PNP	PNP DARLINGTON, 60 VOLTS/65 WATT
TIP126	TO-220AB	DARL-PNP	PNP DARLINGTON, 80 VOLTS/65 WATT
TIP127	TO-220AB	DARL-PNP	PNP DARLINGTON, 100 VOLTS/65 WATT
TIP140	TO-218AC	DARL-NPN	NPN DARLINGTON, 60 VOLTS/125 WATT
TIP141	TO-218AC	DARL-NPN	NPN DARLINGTON, 80 VOLTS/125 WATT
TIP142	TO-218AC	DARL-NPN	NPN DARLINGTON, 100 VOLTS/125 WATT
TIP145	TO-218AC	DARL-PNP	PNP DARLINGTON, 60 VOLTS/125 WATT
TIP146	TO-218AC	DARL-PNP	PNP DARLINGTON, 80 VOLTS/125 WATT
TIP147	TO-218AC	DARL-PNP	PNP DARLINGTON, 100 VOLTS/125 WATT
TIP29	TO-220AB	NPN	NPN POWER TRANSISTOR, 40 VOLTS/30 WATT
TIP2955	TO-218AC	PNP	PNP POWER TRANSISTOR, 60 VOLTS/90 WATT
TIP29A	TO-220AB	NPN	NPN POWER TRANSISTOR, 60 VOLTS/30 WATT
TIP29B	TO-220AB	NPN	NPN POWER TRANSISTOR, 80 VOLTS/30 WATT
TIP29C	TO-220AB	NPN	NPN POWER TRANSISTOR, 100 VOLTS/30 WATT
TIP30	TO-220AB	PNP	PNP POWER TRANSISTOR, 40 VOLTS/30 WATT
TIP3055	TO-218AC	NPN	NPN POWER TRANSISTOR, 60 VOLTS/90 WATT



**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
TIP30A	TO-220AB	PNP	PNP POWER TRANSISTOR, 60 VOLTS/30 WATT
TIP30B	TO-220AB	PNP	PNP POWER TRANSISTOR, 80 VOLTS/30 WATT
TIP30C	TO-220AB	PNP	PNP POWER TRANSISTOR, 100 VOLTS/30 WATT
TIP31	TO-220AB	NPN	NPN POWER TRANSISTOR, 40 VOLTS/40 WATT
TIP31A	TO-220AB	NPN	NPN POWER TRANSISTOR, 60 VOLTS/40 WATT
TIP31B	TO-220AB	NPN	NPN POWER TRANSISTOR, 80 VOLTS/40 WATT
TIP31C	TO-220AB	NPN	NPN POWER TRANSISTOR, 100 VOLTS/40 WATT
TIP32	TO-220AB	PNP	PNP POWER TRANSISTOR, 40 VOLTS/40 WATT
TIP32A	TO-220AB	PNP	PNP POWER TRANSISTOR, 60 VOLTS/40 WATT
TIP32B	TO-220AB	PNP	PNP POWER TRANSISTOR, 80 VOLTS/40 WATT
TIP32C	TO-220AB	PNP	PNP POWER TRANSISTOR, 100 VOLTS/40 WATT
TIP33	TO-218AC	NPN	NPN POWER TRANSISTOR, 40 VOLTS/80 WATT
TIP33A	TO-218AC	NPN	NPN POWER TRANSISTOR, 60 VOLTS/80 WATT
TIP33B	TO-218AC	NPN	NPN POWER TRANSISTOR, 80 VOLTS/80 WATT
TIP33C	TO-218AC	NPN	NPN POWER TRANSISTOR, 100 VOLTS/80 WATT
TIP34	TO-218AC	PNP	PNP POWER TRANSISTOR, 40 VOLTS/80 WATT
TIP34A	TO-218AC	PNP	PNP POWER TRANSISTOR, 60 VOLTS/80 WATT
TIP34B	TO-218AC	PNP	PNP POWER TRANSISTOR, 80 VOLTS/80 WATT
TIP34C	TO-218AC	PNP	PNP POWER TRANSISTOR, 100 VOLTS/80 WATT
TIP35	TO-218AC	NPN	NPN POWER TRANSISTOR, 40 VOLTS/125 WATT
TIP35A	TO-218AC	NPN	NPN POWER TRANSISTOR, 60 VOLTS/125 WATT
TIP35B	TO-218AC	NPN	NPN POWER TRANSISTOR, 80 VOLTS/125 WATT
TIP35C	TO-218AC	NPN	NPN POWER TRANSISTOR, 100 VOLTS/125 WATT
TIP36	TO-218AC	PNP	PNP POWER TRANSISTOR, 40 VOLTS/125 WATT
TIP36A	TO-218AC	PNP	PNP POWER TRANSISTOR, 60 VOLTS/125 WATT
TIP36B	TO-218AC	PNP	PNP POWER TRANSISTOR, 80 VOLTS/125 WATT

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
TIP36C	TO-218AC	PNP	PNP POWER TRANSISTOR, 100 VOLTS/125 WATT
TIP41	TO-220AB	NPN	NPN POWER TRANSISTOR, 40 VOLTS/65 WATT
TIP41A	TO-220AB	NPN	NPN POWER TRANSISTOR, 60 VOLTS/65 WATT
TIP41B	TO-220AB	NPN	NPN POWER TRANSISTOR, 80 VOLTS/65 WATT
TIP41C	TO-220AB	NPN	NPN POWER TRANSISTOR, 100 VOLTS/65 WATT
TIP42	TO-220AB	PNP	PNP POWER TRANSISTOR, 40 VOLTS/65 WATT
TIP42A	TO-220AB	PNP	PNP POWER TRANSISTOR, 60 VOLTS/65 WATT
TIP42B	TO-220AB	PNP	PNP POWER TRANSISTOR, 80 VOLTS/65 WATT
TIP42C	TO-220AB	PNP	PNP POWER TRANSISTOR, 100 VOLTS/65 WATT
TIP47	TO-220AB	NPN	NPN POWER TRANSISTOR, 250 VOLTS/40 WATT
TIP48	TO-220AB	NPN	NPN POWER TRANSISTOR, 300 VOLTS/40 WATT
TIP49	TO-220AB	NPN	NPN POWER TRANSISTOR, 350 VOLTS/40 WATT
TIP50	TO-220AB	NPN	NPN POWER TRANSISTOR, 400 VOLTS/40 WATT
VN0300L	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL, ENHANCEMENT MODE, TMOS FET
VN0610LL	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL, ENHANCEMENT MODE, TMOS FET
VN10LM	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL, ENHANCEMENT MODE, TMOS FET
VN1706L	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL, ENHANCEMENT MODE, TMOS FET
VN2222LL	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL, ENHANCEMENT MODE, TMOS FET
VN2406L	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL, ENHANCEMENT MODE, TMOS FET
VN2410L	TO-92:TO-92A:TO-92B:TO-92C	NTMOS	N-CHANNEL, ENHANCEMENT MODE, TMOS FET
ZPD10	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=10V

**Table 8-1. Motor-tx Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
ZPD11	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=11V
ZPD12	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=12V
ZPD13	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=13V
ZPD15	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=15V
ZPD16	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=16V
ZPD18	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=18V
ZPD2.7	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=2.7V
ZPD20	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=20V
ZPD22	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=22V
ZPD24	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=24V
ZPD27	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=27V
ZPD3.0	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.0V
ZPD3.3	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.3V
ZPD3.6	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.6V
ZPD3.9	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=3.9V
ZPD30	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=30V
ZPD33	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=33V
ZPD4.3	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.3V

**Table 8-1. Motor-tx Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
ZPD4.7	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=4.7V
ZPD5.1	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.1V
ZPD5.6	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=5.6V
ZPD6.2	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.2V
ZPD6.8	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=6.8V
ZPD7.5	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=7.5V
ZPD8.2	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=8.2V
ZPD9.1	DO35	ZENER	ZENER VOLTAGE REGULATOR DIODE, VZ=9.1V

## Chapter 9

# National Library

The following table lists all the part types in the national sample library. This listing is based on the part types and lists any associated PCB Decals and Logic Decals. The associated PCB and/or Logic decals are not necessarily sourced from the same library as the part type.

**Table 9-1. National Library Part Types**

Part Type	PCB Decals	Logic Decals	Description
27C1023	DIP32-600	RE128K8:RE128K8-A	128K X 8 BIT CMOS EPROM
363D	DIP16	363	PRECISION INSTRUMENTATION AMPLIFIER
8250A	DIP40-600	8250	ASYNCHRONOUS COMMUNICATIONS ELEMENT
8340	DIP24-600	8340	SERIAL BI-PHASE TRANSMITTER/ENCODER
8341	DIP24-600	8341	SERIAL BI-PHASE RECEIVER/DECODER
8342	DIP24-600	8342	HIGH-SPEED SERIAL TRANSMITTER/ENCODER
8343	DIP24-600	8343	HIGH-SPEED SERIAL RECEIVER/DECODER
CD4000B	DIP14:SO14NB	NOR3:INV	Dual 3-input NOR Gate + inverter
CD4000C	DIP14:SO14NB	NOR3:INV	DUAL 3-INPUT NOR GATE PLUS INVERTER
CD4000M	DIP14:SO14NB	NOR3:INV	DUAL 3-INPUT NOR GATE PLUS INVERTER
CD4001	DIP14	NOR2	Quad 2-input NOR Gate
CD4001B	DIP14	NOR2	Quad 2-input NOR Gate
CD4001BC	DIP14	NOR2	Quad 2-input NOR Gate
CD4001BCP	DIP14	NOR2	Quad 2-input NOR Gate
CD4001BM	DIP14	NOR2	Quad 2-input NOR Gate
CD4001C	DIP14	NOR2	Quad 2-input NOR Gate
CD4001M	DIP14	NOR2	Quad 2-input NOR Gate
CD4002	DIP14	NOR4A	Dual 4-input NOR Gate
CD4002B	DIP14	NOR4A	Dual 4-input NOR Gate
CD4002BC	DIP14	NOR4A	Dual 4-input NOR Gate
CD4002BM	DIP14	NOR4A	Dual 4-input NOR Gate

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CD4002C	DIP14	NOR4A	Dual 4-input NOR Gate
CD4002M	DIP14	NOR4A	Dual 4-input NOR Gate
CD4006	DIP14	4006	18 STAGE STATIC SHIFT REGISTER
CD4006B	DIP14	4006	18 STAGE STATIC SHIFT REGISTER
CD4006BC	DIP14	4006	18 STAGE STATIC SHIFT REGISTER
CD4006BM	DIP14	4006	18 STAGE STATIC SHIFT REGISTER
CD4007	DIP14	4007	DUAL COMPLIMENTARY PAIR PLUS INVERTER
CD4007C	DIP14	4007	DUAL COMPLIMENTARY PAIR PLUS INVERTER
CD4007M	DIP14	4007	DUAL COMPLIMENTARY PAIR PLUS INVERTER
CD4007UB	DIP14	4007	DUAL COMPLIMENTARY PAIR PLUS INVERTER
CD4008	DIP16	4008	4 BIT FULL ADDER
CD4008B	DIP16	4008	4 BIT FULL ADDER
CD4008BC	DIP16	4008	4 BIT FULL ADDER
CD4008BM	DIP16	4008	4 BIT FULL ADDER
CD4009	DIP16	INV:INVDM	Hex Inverting Buffer
CD4009B	DIP16	INV:INVDM	Hex Inverting Buffer
CD4009C	DIP16	INV:INVDM	Hex Inverting Buffer
CD4009M	DIP16	INV:INVDM	Hex Inverting Buffer
CD4010	DIP16	INV:INVDM	Hex Inverting Buffer
CD40106	DIP14	INVST	HEX SCHMITT TRIGGER
CD40106B	DIP14:SO14NB	INVST	Hex Schmidt Trigger
CD40106BC	DIP14	INVST	HEX SCHMITT TRIGGER
CD40106BM	DIP14	INVST	HEX SCHMITT TRIGGER
CD4010B	DIP16	INV:INVDM	HEX INVERTING BUFFERS
CD4010C	DIP16	INV:INVDM	HEX INVERTING BUFFERS
CD4010M	DIP16	INV:INVDM	HEX INVERTING BUFFERS
CD4011	DIP14	NAND2	QUAD 2-INPUT NAND GATES

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CD4011B	DIP14	NAND2	QUAD 2-INPUT NAND GATES
CD4011BC	DIP14	NAND2	QUAD 2-INPUT NAND GATES
CD4011BM	DIP14	NAND2	QUAD 2-INPUT NAND GATES
CD4011C	DIP14	NAND2	QUAD 2-INPUT NAND GATES
CD4011M	DIP14	NAND2	QUAD 2-INPUT NAND GATES
CD4011UB	DIP14	NAND2	QUAD 2-INPUT NAND GATES
CD4012	DIP14	NAND4	DUAL 4-INPUT NAND GATE
CD4012B	DIP14	NAND4	DUAL 4-INPUT NAND GATE
CD4012BC	DIP14	NAND4	DUAL 4-INPUT NAND GATE
CD4012BM	DIP14	NAND4	DUAL 4-INPUT NAND GATE
CD4012C	DIP14	NAND4	DUAL 4-INPUT NAND GATE
CD4012M	DIP14	NAND4	DUAL 4-INPUT NAND GATE
CD4013	DIP14	\74	Dual D-Flip-Flop
CD4013B	DIP14	\74	Dual D-Flip-Flop
CD4013BC	DIP14	\74	Dual D-Flip-Flop
CD4013BM	DIP14	\74	Dual D-Flip-Flop
CD4014	DIP16	4014	8-Bit S/R
CD4014B	DIP16	4014	8-Bit S/R
CD4014BC	DIP16	4014	8-Bit S/R
CD4014BM	DIP16	4014	8-Bit S/R
CD4015	DIP16	4015	Dual 4-Bit Shift Reg
CD4015B	DIP16	4015	Dual 4-Bit Shift Reg
CD4015BC	DIP16	4015	Dual 4-Bit Shift Reg
CD4015BM	DIP16	4015	Dual 4-Bit Shift Reg
CD4016	DIP14	4016	Quad Bi-lateral Switch
CD40160B	DIP16:SO16NB	\160	DECADE COUNTER WITH ASYNCHRONOUS CLEAR
CD40160BC	DIP16:SO16NB	\160	DECADE COUNTER WITH ASYNCHRONOUS CLEAR
CD40160BM	DIP16:SO16NB	\160	DECADE COUNTER WITH ASYNCHRONOUS CLEAR

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CD40161B	DIP16:SO16NB	\160	DECADE COUNTER WITH ASYNCHRONYOUS CLEAR
CD40161BC	DIP16:SO16NB	\160	DECADE COUNTER WITH ASYNCHRONYOUS CLEAR
CD40161BM	DIP16:SO16NB	\160	DECADE COUNTER WITH ASYNCHRONYOUS CLEAR
CD40162B	DIP16:SO16NB	\160	DECADE COUNTER WITH ASYNCHRONYOUS CLEAR
CD40162BC	DIP16:SO16NB	\160	DECADE COUNTER WITH ASYNCHRONYOUS CLEAR
CD40162BM	DIP16:SO16NB	\160	DECADE COUNTER WITH ASYNCHRONYOUS CLEAR
CD40163B	DIP16:SO16NB	\160	DECADE COUNTER WITH ASYNCHRONYOUS CLEAR
CD40163BC	DIP16:SO16NB	\160	DECADE COUNTER WITH ASYNCHRONYOUS CLEAR
CD40163BM	DIP16:SO16NB	\160	DECADE COUNTER WITH ASYNCHRONYOUS CLEAR
CD4016B	DIP14	4016	Quad Bi-lateral Switch
CD4016BC	DIP14	4016	Quad Bi-lateral Switch
CD4016BM	DIP14	4016	Quad Bi-lateral Switch
CD4017	DIP16	4017	Decade Counter/Divider
CD40174B	DIP16:SO16NB	\174	Hex D Flip-Flop
CD40174BC	DIP16:SO16NB	\174	Hex D Flip-Flop
CD40174BM	DIP16:SO16NB	\174	Hex D Flip-Flop
CD40175B	DIP16:SO16NB	40175	Quad D Flip-Flop
CD40175BC	DIP16:SO16NB	40175	Quad D Flip-Flop
CD40175BM	DIP16:SO16NB	40175	Quad D Flip-Flop
CD4017B	DIP16	4017	Decade Counter/Divider
CD4017BC	DIP16	4017	Decade Counter/Divider
CD4017BM	DIP16	4017	Decade Counter/Divider
CD4018	DIP16	4018	PRESETTABLE DIVIDE-BY-N-COUNTER
CD4018B	DIP16	4018	PRESETTABLE DIVIDE-BY-N-COUNTER



**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CD4018BC	DIP16	4018	PRESETTABLE DIVIDE-BY-N-COUNTER
CD4018BM	DIP16	4018	PRESETTABLE DIVIDE-BY-N-COUNTER
CD4019	DIP16	4019	QUAD AND-OR SELECT GATE
CD40192B	DIP16:SO16NB	40193	SYNCHRONOUS 4-BIT UP/DOWN DECADE COUNTER
CD40192BC	DIP16:SO16NB	40193	SYNCHRONOUS 4-BIT UP/DOWN DECADE COUNTER
CD40192BM	DIP16:SO16NB	40193	SYNCHRONOUS 4-BIT UP/DOWN DECADE COUNTER
CD40193B	DIP16:SO16NB	40193	SYNCHRONOUS 4-BIT UP/DOWN BINARY COUNTER
CD40193BC	DIP16:SO16NB	40193	SYNCHRONOUS 4-BIT UP/DOWN BINARY COUNTER
CD40193BM	DIP16:SO16NB	40193	SYNCHRONOUS 4-BIT UP/DOWN BINARY COUNTER
CD4019B	DIP16	4019	QUAD AND-OR SELECT GATE
CD4019BC	DIP16	4019	QUAD AND-OR SELECT GATE
CD4019BM	DIP16	4019	QUAD AND-OR SELECT GATE
CD4020	DIP16	4020	14-STAGE RIPPLE CARRY BINARY COUNTER
CD4020B	DIP16	4020	14-STAGE RIPPLE CARRY BINARY COUNTER
CD4020BC	DIP16	4020	14-STAGE RIPPLE CARRY BINARY COUNTER
CD4020BM	DIP16	4020	14-STAGE RIPPLE CARRY BINARY COUNTER
CD4021	DIP16	4021	8-STAGE STATIC SHIFT REGISTER
CD4021B	DIP16	4021	8-STAGE STATIC SHIFT REGISTER
CD4021BC	DIP16	4021	8-STAGE STATIC SHIFT REGISTER
CD4021BM	DIP16	4021	8-STAGE STATIC SHIFT REGISTER
CD4022	DIP16	4022	DIVIDE-BY-8 COUNTER / DIVIDER W/8 DECODED OUTPUTS
CD4022B	DIP16	4022	DIVIDE-BY-8 COUNTER / DIVIDER W/8 DECODED OUTPUTS
CD4022BC	DIP16	4022	DIVIDE-BY-8 COUNTER / DIVIDER W/8 DECODED OUTPUTS

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CD4022BM	DIP16	4022	DIVIDE-BY-8 COUNTER / DIVIDER W/8 DECODED OUTPUTS
CD4023	DIP14	NAND3	Triple 3-Input NAND
CD4023B	DIP14	NAND3	Triple 3-Input NAND
CD4023BC	DIP14	NAND3	Triple 3-Input NAND
CD4023BCP	DIP14	NAND3	Triple 3-Input NAND
CD4023BM	DIP14	NAND3	Triple 3-Input NAND
CD4023C	DIP14	NAND3	Triple 3-Input NAND
CD4023M	DIP14	NAND3	Triple 3-Input NAND
CD4024	DIP14	4024	7 STAGE RIPPLE CARRY BINARY COUNTER
CD4024B	DIP14	4024	7 STAGE RIPPLE CARRY BINARY COUNTER
CD4024BC	DIP14	4024	7 STAGE RIPPLE CARRY BINARY COUNTER
CD4024BM	DIP14	4024	7 STAGE RIPPLE CARRY BINARY COUNTER
CD4025	DIP14	NOR3	Triple 3-Input NOR gate
CD4025B	DIP14	NOR3	Triple 3-Input NOR gate
CD4025BC	DIP14	NOR3	Triple 3-Input NOR gate
CD4025BM	DIP14	NOR3	Triple 3-Input NOR gate
CD4025C	DIP14	NOR3	Triple 3-Input NOR gate
CD4025M	DIP14	NOR3	Triple 3-Input NOR gate
CD4027	DIP16	4027	Dual J/F Flip-Flop
CD4027B	DIP16	4027	Dual J/F Flip-Flop
CD4027BC	DIP16	4027	Dual J/F Flip-Flop
CD4027BM	DIP16	4027	Dual J/F Flip-Flop
CD4028	DIP16	4028	BCD-to-Decimal Decoder
CD4028B	DIP16	4028	BCD-to-Decimal Decoder
CD4028BC	DIP16	4028	BCD-to-Decimal Decoder
CD4028BM	DIP16	4028	BCD-to-Decimal Decoder
CD4029	DIP16	4029	4 Bit Preset Up/Dwn Ctr
CD4029B	DIP16	4029	4 Bit Preset Up/Dwn Ctr
CD4029BC	DIP16	4029	4 Bit Preset Up/Dwn Ctr

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CD4029BM	DIP16	4029	4 Bit Preset Up/Dwn Ctr
CD4030	DIP14	XOR	Quad Exclusive OR Gate
CD4030B	DIP14	XOR	Quad Exclusive OR Gate
CD4030C	DIP14	XOR	Quad Exclusive OR Gate
CD4030M	DIP14	XOR	Quad Exclusive OR Gate
CD4031	DIP16	4031	64-STAGE STATIC SHIFT REGISTER
CD4031B	DIP16	4031	64-STAGE STATIC SHIFT REGISTER
CD4031BC	DIP16	4031	64-STAGE STATIC SHIFT REGISTER
CD4031BM	DIP16	4031	64-STAGE STATIC SHIFT REGISTER
CD4034	DIP24-600	4034	8-STAGE TRI-STATE BI PARALLEL/SER I/O BU REGISTER
CD4034B	DIP24-600	4034	8-STAGE TRI-STATE BI PARALLEL/SER I/O BU REGISTER
CD4034BC	DIP24-600	4034	8-STAGE TRI-STATE BI PARALLEL/SER I/O BU REGISTER
CD4034BM	DIP24-600	4034	8-STAGE TRI-STATE BI PARALLEL/SER I/O BU REGISTER
CD4035	DIP16	4035	4 BIT PARALELL-IN/PARALLEL-OUT SHIFT REGISTER
CD4035B	DIP16	4035	4 BIT PARALELL-IN/PARALLEL-OUT SHIFT REGISTER
CD4035BC	DIP16	4035	4 BIT PARALELL-IN/PARALLEL-OUT SHIFT REGISTER
CD4035BM	DIP16	4035	4 BIT PARALELL-IN/PARALLEL-OUT SHIFT REGISTER
CD4040	DIP16	4020	12-STAGE RIPPLE CARRY BINARY COUNTER
CD4040B	DIP16	4020	12-STAGE RIPPLE CARRY BINARY COUNTER
CD4040BC	DIP16	4020	12-STAGE RIPPLE CARRY BINARY COUNTER
CD4040BM	DIP16	4020	12-STAGE RIPPLE CARRY BINARY COUNTER
CD4041	DIP14	4041	QUAD TRUE/COMPLEMENT BUFFER
CD4041B	DIP14	4041	QUAD TRUE/COMPLEMENT BUFFER
CD4041C	DIP14	4041	QUAD TRUE/COMPLEMENT BUFFER

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CD4041M	DIP14	4041	QUAD TRUE/COMPLEMENT BUFFER
CD4042	DIP16	4042	QUAD CLOCKED D LATCH
CD4042B	DIP16	4042	QUAD CLOCKED D LATCH
CD4042BC	DIP16	4042	QUAD CLOCKED D LATCH
CD4042BM	DIP16	4042	QUAD CLOCKED D LATCH
CD4043	DIP16	4043	QUAD TRI-STATE NOR R/S LATCHES
CD4043B	DIP16	4043	QUAD TRI-STATE NOR R/S LATCHES
CD4043BC	DIP16	4043	QUAD TRI-STATE NOR R/S LATCHES
CD4043BM	DIP16	4043	QUAD TRI-STATE NOR R/S LATCHES
CD4044	DIP16:SO16NB	4044	QUAD TRI-STATE NAND R/S LATCHES
CD4044B	DIP16:SO16NB	4044	Quad NOR R/S Latch
CD4044BC	DIP16:SO16NB	4044	QUAD TRI-STATE NAND R/S LATCHES
CD4044BM	DIP16:SO16NB	4044	QUAD TRI-STATE NAND R/S LATCHES
CD4046	DIP16	4046	MICROPOWER PHASE-LOCKED LOOP
CD4046B	DIP16	4046	MICROPOWER PHASE-LOCKED LOOP
CD4046BC	DIP16	4046	MICROPOWER PHASE-LOCKED LOOP
CD4046BM	DIP16	4046	MICROPOWER PHASE-LOCKED LOOP
CD4047	DIP14:SO14NB	4047	LOW POWER MONOSTABLE/ASTABLE MULTIVIBRATOR
CD4047B	DIP14:SO14NB	4047	Monostable/Astable MV
CD4047BC	DIP14:SO14NB	4047	LOW POWER MONOSTABLE/ASTABLE MULTIVIBRATOR
CD4047BM	DIP14:SO14NB	4047	LOW POWER MONOSTABLE/ASTABLE MULTIVIBRATOR
CD4048	DIP16:SO16NB	4048	TRI-STATE EXPANDABLE 8-FUNCTION 8-INPUT GATE
CD4048B	DIP16:SO16NB	4048	TRI-STATE EXPANDABLE 8-FUNCTION 8-INPUT GATE
CD4048BC	DIP16:SO16NB	4048	TRI-STATE EXPANDABLE 8-FUNCTION 8-INPUT GATE
CD4048BM	DIP16:SO16NB	4048	TRI-STATE EXPANDABLE 8-FUNCTION 8-INPUT GATE

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CD4049	DIP16	INV:INVL:INVDM:INVDML	HEX INVERTING BUFFER
CD4049B	DIP16	INV:INVL:INVDM:INVDML	Hex BUFFER
CD4049UB	DIP16	INV:INVL:INVDM:INVDML	HEX INVERTING BUFFER
CD4049UBC	DIP16	INV:INVL:INVDM:INVDML	HEX INVERTING BUFFER
CD4049UBM	DIP16	INV:INVL:INVDM:INVDML	HEX INVERTING BUFFER
CD4050	DIP16	INVNON:INVNONL	HEX NON-INVERTING BUFFER
CD4050B	DIP16	INVNON:INVNONL	HEX NON-INVERTING BUFFER
CD4050BC	DIP16	INVNON:INVNONL	HEX NON-INVERTING BUFFER
CD4050BCP	DIP16	INVNON:INVNONL	HEX NON-INVERTING BUFFER
CD4050BM	DIP16	INVNON:INVNONL	HEX NON-INVERTING BUFFER
CD4051B	DIP16:SO16NB	4051	8 Channel ANALOGUE Multiplexer
CD4051BM	DIP16:SO16NB	4051	8 Channel ANALOGUE Multiplexer
CD4052	DIP16	4052	DUAL 4-CHANNEL ANALOG MUX/DEMUX
CD4052B	DIP16	4052	DUAL 4-CHANNEL ANALOG MUX/DEMUX
CD4052BC	DIP16	4052	DUAL 4-CHANNEL ANALOG MUX/DEMUX
CD4052BM	DIP16	4052	DUAL 4-CHANNEL ANALOG MUX/DEMUX
CD4053	DIP16	4053A	TRIPLE 2-CHANNEL ANALOG MUX/DEMUX
CD4053B	DIP16	4052	TRIPLE 2-CHANNEL ANALOG MUX/DEMUX
CD4053BC	DIP16	4052	TRIPLE 2-CHANNEL ANALOG MUX/DEMUX
CD4053BM	DIP16	4052	TRIPLE 2-CHANNEL ANALOG MUX/DEMUX
CD4060	DIP16	4060	14-STAGE RIPPLE CARRY BINARY COUNTER
CD4060B	DIP16	4060	14-STAGE RIPPLE CARRY BINARY COUNTER
CD4060BC	DIP16	4060	14-STAGE RIPPLE CARRY BINARY COUNTER
CD4060BM	DIP16	4060	14-STAGE RIPPLE CARRY BINARY COUNTER
CD4061B	DIP16:SO16NB	4060	14 Stage Rip Ctr/Oscill Xtal 4060 version
CD4066	DIP14	4016	QUAD BILATERAL SWITCH
CD4066B	DIP14	4016	QUAD BILATERAL SWITCH
CD4066BC	DIP14	4016	QUAD BILATERAL SWITCH
CD4066BM	DIP14	4016	QUAD BILATERAL SWITCH
CD4068B	DIP14:SO14NB	NAND8	8 INPUT NAND

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CD4069	DIP14	INV:INVDM	HEX INVERTER CIRCUITS
CD4069B	DIP14	INV:INVDM	HEX INVERTER CIRCUITS
CD4069UB	DIP14	INV:INVDM	HEX INVERTER CIRCUITS
CD4069UBC	DIP14	INV:INVDM	HEX INVERTER CIRCUITS
CD4069UBM	DIP14	INV:INVDM	HEX INVERTER CIRCUITS
CD4070	DIP14	XOR	QUAD 2-INPUT EXCLUSIVE-OR GATE
CD4070B	DIP14	XOR	QUAD 2-INPUT EXCLUSIVE-OR GATE
CD4070BC	DIP14	XOR	QUAD 2-INPUT EXCLUSIVE-OR GATE
CD4070BM	DIP14	XOR	QUAD 2-INPUT EXCLUSIVE-OR GATE
CD4071	DIP14	OR2	Quad 2-Input OR-Gate
CD4071B	DIP14	OR2	Quad 2-Input OR-Gate
CD4071BC	DIP14	OR2	Quad 2-Input OR-Gate
CD4071BM	DIP14	OR2	Quad 2-Input OR-Gate
CD4072	DIP14	OR4	Dual 4-Input OR-Gate
CD4072B	DIP14	OR4	Dual 4-Input OR-Gate
CD4072BC	DIP14	OR4	Dual 4-Input OR-Gate
CD4072BM	DIP14	OR4	Dual 4-Input OR-Gate
CD4073	DIP14	AND3	DOUBLE BUFFERED 3-INPUT AND GATE
CD4073B	DIP14	AND3	DOUBLE BUFFERED 3-INPUT AND GATE
CD4073BC	DIP14	AND3	DOUBLE BUFFERED 3-INPUT AND GATE
CD4073BM	DIP14	AND3	DOUBLE BUFFERED 3-INPUT AND GATE
CD4075	DIP14	OR3	DOUBLE BUFFERED 3-INPUT 'OR' GATE
CD4075B	DIP14	OR3	DOUBLE BUFFERED 3-INPUT 'OR' GATE
CD4075BC	DIP14	OR3	DOUBLE BUFFERED 3-INPUT 'OR' GATE
CD4075BM	DIP14	OR3	DOUBLE BUFFERED 3-INPUT 'OR' GATE
CD4076	DIP16	4076	TRI-STATE QUAD D FLIP-FLOP
CD4076B	DIP16	4076	TRI-STATE QUAD D FLIP-FLOP
CD4076BC	DIP16	4076	TRI-STATE QUAD D FLIP-FLOP
CD4076BM	DIP16	4076	TRI-STATE QUAD D FLIP-FLOP
CD4077	DIP14:SO14NB	XNOR	QUAD EXCLUSIVE NOR GATE

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CD4077B	DIP14:SO14NB	XNOR	Quad Exclusive NOR Gate
CD4078B	DIP14:SO14NB	NOR8	8 INPUT NOR
CD4081	DIP14	AND2	QUAD 2-INPUT AND BUFFERED B SERIES GATE
CD4081B	DIP14	AND2	QUAD 2-INPUT AND BUFFERED B SERIES GATE
CD4081BC	DIP14	AND2	QUAD 2-INPUT AND BUFFERED B SERIES GATE
CD4081BM	DIP14	AND2	QUAD 2-INPUT AND BUFFERED B SERIES GATE
CD4082	DIP14	AND4	DUAL 4-INPUT AND GATE
CD4082B	DIP14	AND4	DUAL 4-INPUT AND GATE
CD4082BC	DIP14	AND4	DUAL 4-INPUT AND GATE
CD4082BM	DIP14	AND4	DUAL 4-INPUT AND GATE
CD4089	DIP16	4089	BINARY RATE MULTIPLIER
CD4089B	DIP16	4089	BINARY RATE MULTIPLIER
CD4089BC	DIP16	4089	BINARY RATE MULTIPLIER
CD4089BM	DIP16	4089	BINARY RATE MULTIPLIER
CD4093	DIP14	NAND2:NANDDM	QUAD 2-INPUT NAND SCHMITT TRIGGER
CD4093B	DIP14	NAND2:NAND2DM	QUAD 2-INPUT NAND SCHMITT TRIGGER
CD4093BC	DIP14	NAND2:NAND2DM	QUAD 2-INPUT NAND SCHMITT TRIGGER
CD4093BM	DIP14	NAND2:NAND2DM	QUAD 2-INPUT NAND SCHMITT TRIGGER
CD4094	DIP16	4094	8-BIT SHIFT REGISTER/LATCH W/TRI-STATE OUTPUTS
CD4094B	DIP16	4094	8-BIT SHIFT REGISTER/LATCH W/TRI-STATE OUTPUTS
CD4094BC	DIP16	4094	8-BIT SHIFT REGISTER/LATCH W/TRI-STATE OUTPUTS
CD4094BM	DIP16	4094	8-BIT SHIFT REGISTER/LATCH W/TRI-STATE OUTPUTS
CD4099	DIP16	4099	8-BIT ADDRESSABLE LATCH
CD4099B	DIP16	4099	8-BIT ADDRESSABLE LATCH

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CD4099BC	DIP16	4099	8-BIT ADDRESSABLE LATCH
CD4511BM	SO16NB	4511	BCD-TO-7 SEGMENT LATCH/DECODER/DRIVER
CD4511BN	DIP16	4511	BCD-TO-7 SEGMENT LATCH/DECODER/DRIVER
CD4512BM	SO16NB	4512	8-CHANNEL BUFFERED DATA SELECTOR
CD4512BN	DIP16	4512	8-CHANNEL BUFFERED DATA SELECTOR
CD4518B	DIP16	\4518	DUAL BCD COUNTER
CD4518BM	SO16NB	\4518	DUAL BCD COUNTER
CD4518BN	DIP16	\4518	DUAL BCD COUNTER
CD4520BM	SO16NB	\4518	Dual BIN counter
CD4520BN	DIP16	\4518	Dual BIN counter
CD4527BN	DIP16	4089	BCD RATE MULTIPLIER
CD4528BM	SO16NB	\4538	Dual Monostable
CD4528BN	DIP16	\4538	Dual Monostable
CD4538BM	SO16NB	\4538	Dual Precision Monostable
CD4538BN	DIP16	\4538	Dual Precision Monostable
CD4539BM	SO16NB	\153	DUAL 4-LINE TO 1-LINE DATE SELECTOR/MULTIPLEXER
CD4539BN	DIP16	\153	DUAL 4-LINE TO 1-LINE DATE SELECTOR/MULTIPLEXER
CD4555BM	SO16NB	4555	Dual 4-Bit DECODER
CD4555BN	DIP16	4555	Dual 4-Bit DECODER
CD4556BM	SO16NB	4556	Dual 4-Bit DECODER
CD4556BN	DIP16	4556	Dual 4-Bit DECODER
CD4724B	DIP16:SO16NB	4724	8 Bit Addressable latch
DS8921A	DIP8	DS8921A	RS-422 LINE DRIVER/RECEIVER PAIR
HPC16164	LCC68SQ	16164	16 BIT uC 8 BIT A-D
HS7067CK	K08A	HS7067	7 AMP, MULTIMODE, HIGH FREQUENCY SWITCHING REG.
HS7067K	K08A	HS7067	7 AMP, MULTIMODE, HIGH FREQUENCY SWITCHING REG.



**Table 9-1. National Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
HS7107CK	K08A	HS7067	7 AMP, MULTIMODE, HIGH FREQUENCY SWITCHING REG.
HS7107K	K08A	HS7067	7 AMP, MULTIMODE, HIGH FREQUENCY SWITCHING REG.
LF111H	TO-99	OPAMP-TRIM	VOLTAGE COMPARATOR
LF13741H	TO-99	OPAMP2-TRIM	JFET INPUT OP AMP
LF13741N	DIP8	OPAMP2-TRIM	JFET INPUT OP AMP
LF147D	DIP14	OPAMP2	QUAD, JFET INPUT OPERATIONAL AMPLIFIER
LF147J	DIP14	OPAMP2	QUAD, JFET INPUT OPERATIONAL AMPLIFIER
LF155AH	TO-99	OPAMP2-TRIM	JFET INPUT OP AMP
LF155H	TO-99	OPAMP2-TRIM	JFET INPUT OP AMP
LF155J	DIP14	OPAMP2-TRIM	JFET INPUT OP AMP
LF156AH	TO-99	OPAMP2-TRIM	JFET INPUT OP AMP
LF156H	TO-99	OPAMP2-TRIM	JFET INPUT OP AMP
LF156J	DIP14	OPAMP2-TRIM	JFET INPUT OP AMP
LF157AH	TO-99	OPAMP2-TRIM	JFET INPUT OP AMP
LF157H	TO-99	OPAMP2-TRIM	JFET INPUT OP AMP
LF157J	DIP14	OPAMP2-TRIM	JFET INPUT OP AMP
LF211H	TO-99	OPAMP-TRIM	VOLTAGE COMPARATOR
LF255H	TO-99	OPAMP-TRIM	JFET INPUT OP AMP
LF256H	TO-99	OPAMP-TRIM	JFET INPUT OP AMP
LF257H	TO-99	OPAMP-TRIM	JFET INPUT OP AMP
LF311H	TO-99	OPAMP-TRIM	VOLTAGE COMPARATOR
LF347BJ	DIP14	OPAMP2	QUAD, JFET INPUT OPERATIONAL AMPLIFIER
LF347BN	DIP14	OPAMP2	QUAD, JFET INPUT OPERATIONAL AMPLIFIER
LF347D	DIP14	OPAMP2	QUAD, JFET INPUT OPERATIONAL AMPLIFIER
LF347J	DIP14	OPAMP2	QUAD, JFET INPUT OPERATIONAL AMPLIFIER
LF347M	SO14NB	OPAMP2	QUAD, JFET INPUT OPERATIONAL AMPLIFIER
LF347N	DIP14	OPAMP2	QUAD, JFET INPUT OPERATIONAL AMPLIFIER
LF347WM	SO14WB	OPAMP2	QUAD, JFET INPUT OPERATIONAL AMPLIFIER

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
F351H	TO-99	OPAMP2-TRIM	WIDE BANDWIDTH JFET INPUT OP AMP
F351J	DIP8	OPAMP2-TRIM	WIDE BANDWIDTH JFET INPUT OP AMP
F351M	SO8NB	OPAMP2-TRIM	WIDE BANDWIDTH JFET INPUT OP AMP
F351N	DIP8	OPAMP2-TRIM	WIDE BANDWIDTH JFET INPUT OP AMP
F353H	TO-99	OPAMP2	DUAL,WIDE BANDWIDTH JFET INPUT OP AM
F353J	DIP8	OPAMP2	DUAL,WIDE BANDWIDTH JFET INPUT OP AM
F353M	SO8NB	OPAMP2	DUAL,WIDE BANDWIDTH JFET INPUT OP AM
F353N	DIP8	OPAMP2	DUAL,WIDE BANDWIDTH JFET INPUT OP AM
F355AH	TO-99	OPAMP-TRIM	JFET INPUT OP AMP
F355BH	TO-99	OPAMP-TRIM	JFET INPUT OP AMP
F355BJ	DIP14	OPAMP-TRIM	JFET INPUT OP AMP
F355BN	DIP8	OPAMP-TRIM	JFET INPUT OP AMP
F355H	TO-99	OPAMP-TRIM	JFET INPUT OP AMP
F355J	DIP14	OPAMP-TRIM	JFET INPUT OP AMP
F355M	SO8NB	OPAMP-TRIM	JFET INPUT OP AMP
F355N	DIP8	OPAMP-TRIM	JFET INPUT OP AMP
F356AH	TO-99	OPAMP-TRIM	JFET INPUT OP AMP
F356BH	TO-99	OPAMP-TRIM	JFET INPUT OP AMP
F356BJ	DIP14	OPAMP-TRIM	JFET INPUT OP AMP
F356BM	SO8NB	OPAMP-TRIM	JFET INPUT OP AMP
F356BN	DIP8	OPAMP-TRIM	JFET INPUT OP AMP
F356H	TO-99	OPAMP-TRIM	JFET INPUT OP AMP
F356J	DIP14	OPAMP-TRIM	JFET INPUT OP AMP
F356M	SO8NB	OPAMP-TRIM	JFET INPUT OP AMP
F356N	DIP8	OPAMP-TRIM	JFET INPUT OP AMP
F357AH	TO-99	OPAMP-TRIM	JFET INPUT OP AMP
F357BH	TO-99	OPAMP-TRIM	JFET INPUT OP AMP
F357BJ	DIP14	OPAMP-TRIM	JFET INPUT OP AMP
F357BN	DIP8	OPAMP-TRIM	JFET INPUT OP AMP
F357H	TO-99	OPAMP-TRIM	JFET INPUT OP AMP

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
F357J	DIP14	OPAMP-TRIM	JFET INPUT OP AMP
F357M	SO8NB	OPAMP-TRIM	JFET INPUT OP AMP
F357N	DIP8	OPAMP-TRIM	JFET INPUT OP AMP
F400ACH	H08	OPAMP2-TRIM-C	FAST SETTling JFET INPUT OP AMP
F400AMH	H08	OPAMP2-TRIM-C	FAST SETTling JFET INPUT OP AMP
F400CH	H08	OPAMP2-TRIM-C	FAST SETTling JFET INPUT OP AMP
F400MH	H08	OPAMP2-TRIM-C	FAST SETTling JFET INPUT OP AMP
F401ACD	DIP14	OPAMP-WB	PRECISION FAST SETTling JFET INPUT OP AMP
F401CD	DIP14	OPAMP-WB	PRECISION FAST SETTling JFET INPUT OP AMP
F411ACH	H08	OPAMP2-TRIM	LOW OFFSET/DRIFT,JFET INPUT OP AMP
F411ACN	DIP8	OPAMP2-TRIM	LOW OFFSET/DRIFT,JFET INPUT OP AMP
F411AMH	H08	OPAMP2-TRIM	LOW OFFSET/DRIFT,JFET INPUT OP AMP
F411CH	H08	OPAMP2-TRIM	LOW OFFSET/DRIFT,JFET INPUT OP AMP
F411CN	DIP8	OPAMP2-TRIM	LOW OFFSET/DRIFT,JFET INPUT OP AMP
F411MH	H08	OPAMP2-TRIM	LOW OFFSET/DRIFT,JFET INPUT OP AMP
F412ACH	H08	OPAMP2	DUAL,LOW OFFSET/DRIFT, JFET INPUT OP AMP
F412ACJ	DIP8	OPAMP2	DUAL,LOW OFFSET/DRIFT, JFET INPUT OP AMP
F412ACN	DIP8	OPAMP2	DUAL,LOW OFFSET/DRIFT, JFET INPUT OP AMP
F412AMH	H08	OPAMP2	DUAL,LOW OFFSET/DRIFT, JFET INPUT OP AMP
F412CH	H08	OPAMP2	DUAL,LOW OFFSET/DRIFT, JFET INPUT OP AMP
F412CJ	DIP8	OPAMP2	DUAL,LOW OFFSET/DRIFT, JFET INPUT OP AMP
F412CN	DIP8	OPAMP2	DUAL,LOW OFFSET/DRIFT, JFET INPUT OP AMP
F412MH	H08	OPAMP2	DUAL,LOW OFFSET/DRIFT, JFET INPUT OP AMP

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
F441ACN	DIP8	OPAMP2-TRIM	LOW POWER JFET INPUT OP AMP
F441AMH	H08	OPAMP2-TRIM	LOW POWER JFET INPUT OP AMP
F441CH	H08	OPAMP2-TRIM	LOW POWER JFET INPUT OP AMP
F441CJ	DIP8	OPAMP2-TRIM	LOW POWER JFET INPUT OP AMP
F441CM	SO8NB	OPAMP2-TRIM	LOW POWER JFET INPUT OP AMP
F441CN	DIP8	OPAMP2-TRIM	LOW POWER JFET INPUT OP AMP
F442ACH	H08	OPAMP2	DUAL,LOW POWER JFET INPUT OP AMP
F442ACN	DIP8	OPAMP2	DUAL,LOW POWER JFET INPUT OP AMP
F442AMH	H08	OPAMP2	DUAL,LOW POWER JFET INPUT OP AMP
F442CH	H08	OPAMP2	DUAL,LOW POWER JFET INPUT OP AMP
F442CJ	DIP8	OPAMP2	DUAL,LOW POWER JFET INPUT OP AMP
F442CN	DIP8	OPAMP2	DUAL,LOW POWER JFET INPUT OP AMP
F444ACN	DIP14	OPAMP2	QUAD,LOW POWER JFET INPUT OPERATIONAL AMPLIFIER
F444AMD	DIP14	OPAMP2	QUAD,LOW POWER JFET INPUT OPERATIONAL AMPLIFIER
F444CD	DIP14	OPAMP2	QUAD,LOW POWER JFET INPUT OPERATIONAL AMPLIFIER
F444CJ	DIP14	OPAMP2	QUAD,LOW POWER JFET INPUT OPERATIONAL AMPLIFIER
F444CM	SO14NB	OPAMP2	QUAD,LOW POWER JFET INPUT OPERATIONAL AMPLIFIER
F444CN	DIP14	OPAMP2	QUAD,LOW POWER JFET INPUT OPERATIONAL AMPLIFIER
F444CWM	SO14WB	OPAMP2	QUAD,LOW POWER JFET INPUT OPERATIONAL AMPLIFIER
F451CM	SO8NB	OPAMP2-TRIM	WIDE BANDWIDTH JFET INPUT OP AMP
F453CM	SO8NB	OPAMP2	DUAL,WIDE BANDWIDTH JFET INPUT OP AMP
H0002CN	DIP10	BUF-10	CURRENT AMPLIFIER
H0002E	LCC20SQ	BUF-8	CURRENT AMPLIFIER
H0002H	H08	BUF-8	CURRENT AMPLIFIER
H0003CH	TO-100	OPAMP-W	WIDE BANDWITH OPERATIONAL AMPLIFIER

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LH0003H	TO-100	OPAMP-W	WIDE BANDWIDTH OPERATIONAL AMPLIFIER
LH0004CH	TO-100	OPAMP-HV	HIGH VOLTAGE OPERATIONAL AMPLIFIER
LH0004H	TO-100	OPAMP-HV	HIGH VOLTAGE OPERATIONAL AMPLIFIER
LH0020CG	TO-8	OPAMP-HG	HIGH GAIN OPERATIONAL AMPLIFIER
LH0020G	TO-8	OPAMP-HG	HIGH GAIN OPERATIONAL AMPLIFIER
LH0021CK	K08A	OPAMP-W	1.0 AMP POWER OPERATIONAL AMPLIFIER
LH0021K	K08A	OPAMP-W	1.0 AMP POWER OPERATIONAL AMPLIFIER
LH0022CD	DIP14	OPAMP2-TRIM	HIGH PERFORMANCE FET OP AMP
LH0022CH	H08	OPAMP2-TRIM	HIGH PERFORMANCE FET OP AMP
LH0022D	DIP14	OPAMP2-TRIM	HIGH PERFORMANCE FET OP AMP
LH0022H	H08	OPAMP2-TRIM	HIGH PERFORMANCE FET OP AMP
LH0024CH	H08	OPAMP2-TRIM-C	HIGH SLEW RATE OP AMP
LH0024H	H08	OPAMP2-TRIM-C	HIGH SLEW RATE OP AMP
LH0032ACG	TO-8	OPAMP2-TRIM-C	ULTRA FAST FET OP AMP
LH0032AG	TO-8	OPAMP2-TRIM-C	ULTRA FAST FET OP AMP
LH0032CG	TO-8	OPAMP2-TRIM-C	ULTRA FAST FET OP AMP
LH0032E	E48A	OPAMP2-TRIM-C	ULTRA FAST FET OP AMP
LH0032G	TO-8	OPAMP2-TRIM-C	ULTRA FAST FET OP AMP
LH0033ACG	TO-8	LH0033	FAST BUFFER AMPLIFIER
LH0033AG	TO-8	LH0033	FAST BUFFER AMPLIFIER
LH0033CG	TO-8	LH0033	FAST BUFFER AMPLIFIER
LH0033CJ	HY08A	LH0033	FAST BUFFER AMPLIFIER
LH0033E	E48A	LH0033	FAST BUFFER AMPLIFIER
LH0033G	TO-8	LH0033	FAST BUFFER AMPLIFIER
LH0033J	HY08A	LH0033	FAST BUFFER AMPLIFIER
LH0036CG	TO-8	LH0036	INSTRUMENTATION AMPLIFIER
LH0036G	TO-8	LH0036	INSTRUMENTATION AMPLIFIER
LH0038	D16D	LH0038	TRUE INSTRUMENTATION AMPLIFIER
LH0038CD	D16D	LH0038	TRUE INSTRUMENTATION AMPLIFIER
LH0041CG	TO-8	OPAMP-HG	0.2 AMP, POWER OPERATIONAL AMPLIFIER

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LH0041G	TO-8	OPAMP-HG	0.2 AMP,POWER OPERATIONAL AMPLIFIER
LH0042CD	DIP14	OPAMP-TRIM	FET OP AMP
LH0042CH	H08	OPAMP-TRIM	FET OP AMP
LH0042D	DIP14	OPAMP-TRIM	FET OP AMP
LH0042E	LCC20SQ	OPAMP-TRIM	FET OP AMP
LH0042H	H08	OPAMP-TRIM	FET OP AMP
LH0044ACH	H08	OPAMP2-TRIM	SERIES PRECISION LOW NOISE OP AMP
LH0044BH	H08	OPAMP2-TRIM	SERIES PRECISION LOW NOISE OP AMP
LH0044CH	H08	OPAMP2-TRIM	SERIES PRECISION LOW NOISE OP AMP
LH0044H	H08	OPAMP2-TRIM	SERIES PRECISION LOW NOISE OP AMP
LH0045CG	TO-8	OPAMP-WB	TWO WIRE TRANSMITTER
LH0045G	TO-8	OPAMP-WB	TWO WIRE TRANSMITTER
LH0052CD	DIP14	OPAMP-TRIM	PRECISION FET OP AMP
LH0052CH	H08	OPAMP-TRIM	PRECISION FET OP AMP
LH0052D	DIP14	OPAMP-TRIM	PRECISION FET OP AMP
LH0052H	H08	OPAMP-TRIM	PRECISION FET OP AMP
LH0061CK	K08A	OPAMP-W	0.5 AMP WIDE BANDWIDTH OP AMP
LH0062CD	DIP14	OPAMP2-TRIM-C	HIGH SPEED FET OP AMP
LH0062CH	H08	OPAMP2-TRIM-C	HIGH SPEED FET OP AMP
LH0062D	DIP14	OPAMP2-TRIM-C	HIGH SPEED FET OP AMP
LH0062H	H08	OPAMP2-TRIM-C	HIGH SPEED FET OP AMP
LH0063CK	K08A	LH0033	ULTRA FAST BUFFER AMPLIFIER
LH0063K	K08A	LH0033	ULTRA FAST BUFFER AMPLIFIER
LH0075	H12B	LH0075	POSITIVE PRECISION PROGRAMMABLE REGULATOR
LH0075C	H12B	LH0075	POSITIVE PRECISION PROGRAMMABLE REGULATOR
LH0076	H12B	LH0075	NEGATIVE PRECISION PROGRAMMABLE REGULATOR
LH0076C	H12B	LH0075	NEGATIVE PRECISION PROGRAMMABLE REGULATOR

**Table 9-1. National Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
LH0082CD	DH-14A	LH0082	OPTICAL COMMUNICATION RECEIVER/AMPLIFIER
LH0084CD	D16D	LH0084	DIGITALLY PROGRAMMABLE-GAIN INSTRUMENTATION AMP
LH0084D	D16D	LH0084	DIGITALLY PROGRAMMABLE-GAIN INSTRUMENTATION AMP
LH0086CD	DH-14A	LH0086	DIGITALLY PROGRAMMABLE GAIN AMPLIFIER
LH0086D	DH-14A	LH0086	DIGITALLY PROGRAMMABLE GAIN AMPLIFIER
LH0101ACK	K08A	OPAMP-W	POWER OPERATIONAL AMPLIFIER
LH0101AK	K08A	OPAMP-W	POWER OPERATIONAL AMPLIFIER
LH0101CK	K08A	OPAMP-W	POWER OPERATIONAL AMPLIFIER
LH0101K	K08A	OPAMP-W	POWER OPERATIONAL AMPLIFIER
LH1605CK	K08A	HS7067	5 AMP, HIGH FREQUENCY SWITCHING REG.
LH1605K	K08A	HS7067	5 AMP, HIGH FREQUENCY SWITCHING REG.
LH2101AD	DIP16	OPAMP2-TRIM-C	DUAL, HIGH PERFORMANCE OP AMP
LH2108AD	DIP16	OPAMP2-TRIM	DUAL, SUPER BETA OPERATIONAL AMPLIFIER
LH2108D	DIP16	OPAMP2-TRIM	DUAL, SUPER BETA OPERATIONAL AMPLIFIER
LH2110D	DIP16	BUF-TRIM-C	DUAL VOLTAGE FOLLOWER
LH2111D	DIP16	OPAMP-TRIM	DUAL, VOLTAGE COMPARATOR
LH2111J	DIP16	OPAMP-TRIM	DUAL, VOLTAGE COMPARATOR
LH2201AD	DIP16	OPAMP2-TRIM-C	DUAL, HIGH PERFORMANCE OP AMP
LH2208AD	DIP16	OPAMP2-TRIM	DUAL, SUPER BETA OPERATIONAL AMPLIFIER
LH2208D	DIP16	OPAMP2-TRIM	DUAL, SUPER BETA OPERATIONAL AMPLIFIER
LH2210D	DIP16	BUF-TRIM-C	DUAL VOLTAGE FOLLOWER
LH2211D	DIP16	OPAMP-TRIM	DUAL, VOLTAGE COMPARATOR
LH2211J	DIP16	OPAMP-TRIM	DUAL, VOLTAGE COMPARATOR
LH2301AD	DIP16	OPAMP2-TRIM-C	DUAL, HIGH PERFORMANCE OP AMP

**Table 9-1. National Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
LH2308AD	DIP16	OPAMP2-TRIM	DUAL, SUPER BETA OPERATIONAL AMPLIFIER
LH2308D	DIP16	OPAMP2-TRIM	DUAL, SUPER BETA OPERATIONAL AMPLIFIER
LH2310D	DIP16	BUF-TRIM-C	DUAL VOLTAGE FOLLOWER
LH2311D	DIP16	OPAMP-TRIM	DUAL, VOLTAGE COMPARATOR
LH2311J	DIP16	OPAMP-TRIM	DUAL, VOLTAGE COMPARATOR
LH4001CN	DIP10	BUF-6	WIDEBAND CURRENT BUFFER
LH4002CH	H08	BUF-6	WIDEBAND VIDEO BUFFER
LH4002CN	DIP10	BUF-6	WIDEBAND VIDEO BUFFER
LH4002E	LCC20SQ	BUF-6	WIDEBAND VIDEO BUFFER
LH4002H	H08	BUF-6	WIDEBAND VIDEO BUFFER
LH4003CD	DIP24-600	OPAMP-C	PRECISION RF CLOSED LOOP BUFFER
LH4003D	DIP24-600	OPAMP-C	PRECISION RF CLOSED LOOP BUFFER
LH4004CD	DIP24-600	OPAMP-TRIM-C	WIDEBAND FET-INPUT BUFFER/AMPLIFIER
LH4004D	DIP24-600	OPAMP-TRIM-C	WIDEBAND FET-INPUT BUFFER/AMPLIFIER
LH4006CD	DIP24-600	OPAMP-C	PRECISION RF CLOSED LOOP BUFFER
LH4006D	DIP24-600	OPAMP-C	PRECISION RF CLOSED LOOP BUFFER
LH4008CK	K08A	LH0033	FAST BUFFER
LH4008CT	TA11B	LH0033	FAST BUFFER
LH4008K	K08A	LH0033	FAST BUFFER
LH4009CK	K08A	LH0033	FAST BUFFER
LH4009CT	TA11B	LH0033	FAST BUFFER
LH4009K	K08A	LH0033	FAST BUFFER
LH4010CG	TO-8	LH0033	FAST BUFFER
LH4010CN	DIP16	LH0033	FAST BUFFER
LH4010G	TO-8	LH0033	FAST BUFFER
LH4011CK	K08A	LH0033	FAST OPEN LOOP BUFFER
LH4011CT	TA11B	LH0033	FAST OPEN LOOP BUFFER
LH4011K	K08A	LH0033	FAST OPEN LOOP BUFFER



**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LH4012CK	K08A	BUF-6	WIDEBAND BUFFER
LH4012K	K08A	BUF-6	WIDEBAND BUFFER
LH4033CN	DIP16	LH0033	FAST BUFFFER AMPLIFIER
LH4063CT	TA11A	LH0033	ULTRA FAST BUFFFER AMPLIFIER
LH4101CD	DIP24-600	LH4101	WIDEBAND HIGH CURRENT OP AMP
LH4101D	DIP24-600	LH4101	WIDEBAND HIGH CURRENT OP AMP
LH4104CG	H12B	LH4104	FAST DETTLING HIGH CURRENT OP AMP
LH4104CN	DIP16	LH4104CN	FAST DETTLING HIGH CURRENT OP AMP
LH4104G	H12B	LH4104	FAST DETTLING HIGH CURRENT OP AMP
LH4105CG	TO-8	OPAMP-W	PRECISION FAST SETTLING HIGH CURRENT OP AMP
LH4105G	TO-8	OPAMP-W	PRECISION FAST SETTLING HIGH CURRENT OP AMP
LH4106CH	TO-100	OPAMP2-TRIM	+/-5V, HIGH SPEED OP AMP
LH4106CN	DIP16	OPAMP2-TRIM	+/-5V, HIGH SPEED OP AMP
LH4106H	TO-100	OPAMP2-TRIM	+/-5V, HIGH SPEED OP AMP
LH4117CD	DH-24B	OPAMP-HG	PRECISION RF AMPLIFIER
LH4117D	DH-24B	OPAMP-HG	PRECISION RF AMPLIFIER
LH4118AG	H12B	LH4118	LOW GAIN WIDE BAND RF AMPLIFIER
LH4118CG	H12B	LH4118	LOW GAIN WIDE BAND RF AMPLIFIER
LH4118G	H12B	LH4118	LOW GAIN WIDE BAND RF AMPLIFIER
LH4124CN	DIP16	OPAMP2-TRIM-C	HIGH SLEW RATE OP AMP
LH4141CN	DIP16	OPAMP-HG	0.2 AMP POWER OP AMP
LH4161AH	TO-100	OPAMP2	HIGH SPEED OP AMP
LH4161AJ	DIP8	OPAMP2	HIGH SPEED OP AMP
LH4161CH	TO-100	OPAMP2	HIGH SPEED OP AMP
LH4161CJ	DIP8	OPAMP2	HIGH SPEED OP AMP
LH4161H	TO-100	OPAMP2	HIGH SPEED OP AMP
LH4161J	DIP8	OPAMP2	HIGH SPEED OP AMP
LH4162AH	TO-100	OPAMP2	DUAL,HIGH SPEED OP AMP

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LH4162AJ	DIP16	OPAMP2	DUAL,HIGH SPEED OP AMP
LH4162CH	TO-100	OPAMP2	DUAL,HIGH SPEED OP AMP
LH4162CJ	DIP16	OPAMP2	DUAL,HIGH SPEED OP AMP
LH4162H	TO-100	OPAMP2	DUAL,HIGH SPEED OP AMP
LH4162J	DIP16	OPAMP2	DUAL,HIGH SPEED OP AMP
LH4200CD	DIP24-600	LH4200	GENERAL PURPOSE GaAs FET AMPLIFIER
LH4200G	TO-8	LH4200	GENERAL PURPOSE GaAs FET AMPLIFIER
LH7001CN	DIP8	LH7001	POSITIVE/NEGATIVE ADJUSTABLE REGULATOR
LH7001H	H08	LH7001	POSITIVE/NEGATIVE ADJUSTABLE REGULATOR
LM101AH	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM101AJ	DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM101AJ-14	DIP14	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM102H	TO-99	BUF-TRIM-C	VOLTAGE FOLLOWER
LM104H	TO-100	LM104	NEGATIVE REGULATOR
LM105H	TO-99	LM105	POSITIVE VOLTAGE REGULATOR
LM106H	H08	OPAMP-TRIM	VOLTAGE COMPARATOR
LM107H	TO-99	OPAMP2	OPERATIONAL AMPLIFIER
LM107J	DIP8	OPAMP2	OPERATIONAL AMPLIFIER
LM108AH	TO-99	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM108AJ-8	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM108H	TO-99	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM108J-8	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM109H	TO-39	VR-3TERM	5 VOLT REGULATOR
LM109K	TO-204AA	VR-3TERM	5 VOLT REGULATOR
LM10BH	H08	OPAMP-C	OP AMP AND VOLTAGE REFERENCE
LM10BLH	H08	OPAMP-C	OP AMP AND VOLTAGE REFERENCE
LM10CH	H08	OPAMP-C	OP AMP AND VOLTAGE REFERENCE
LM10CLH	H08	OPAMP-C	OP AMP AND VOLTAGE REFERENCE

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
M10CLN	DIP8	OPAMP-C	OP AMP AND VOLTAGE REFERENCE
M10CLWM	SO14WB	OPAMP-C	OP AMP AND VOLTAGE REFERENCE
M10CN	DIP8	OPAMP-C	OP AMP AND VOLTAGE REFERENCE
M10CWM	SO14WB	OPAMP-C	OP AMP AND VOLTAGE REFERENCE
M10H	H08	OPAMP-C	OP AMP AND VOLTAGE REFERENCE
M110H	TO-99	BUF-TRIM-C	VOLTAGE FOLLOWER
M110J	DIP14	BUF-TRIM-C	VOLTAGE FOLLOWER
M111H	TO-99	OPAMP-TRIM	VOLTAGE COMPARATOR
M111J	DIP14	OPAMP-TRIM	VOLTAGE COMPARATOR
M111J-8	DIP8	OPAMP-TRIM	VOLTAGE COMPARATOR
M112H	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
M117AH	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
M117AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
M117H	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
M117HVH	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
M117HVK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
M117K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
M118H	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
M118J-8	DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
M119AH	TO-100	OPAMP	DUAL, HIGH SPEED COMPARATOR
M119AJ	DIP14	OPAMP	DUAL, HIGH SPEED COMPARATOR
M119H	TO-100	OPAMP	DUAL, HIGH SPEED COMPARATOR
M119J	DIP14	OPAMP	DUAL, HIGH SPEED COMPARATOR
M11CH	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
M11CLH	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
M11CLN	DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LM11CN	DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM11H	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM120H-12	TO-39	VR-3TERM	12 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM120H-15	TO-39	VR-3TERM	15 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM120H-5.0	TO-39	VR-3TERM	5 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM120K-12	TO-204AA	VR-3TERM	12 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM120K-15	TO-204AA	VR-3TERM	15 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM120K-5.0	TO-204AA	VR-3TERM	5 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM123AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; +5VOLT C 3.0 AMPS
LM123K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; +5VOLT C 3.0 AMPS
LM124AJ	DIP14	OPAMP2	QUAD,LOW POWER OP AMP
LM124J	DIP14	OPAMP2	QUAD,LOW POWER OP AMP
LM12CK	K04A	OPAMP\PWR2	150W OPERATIONAL AMPLIFIER
LM12CLK	K04A	OPAMP\PWR2	150W OPERATIONAL AMPLIFIER
LM12K	K04A	OPAMP\PWR2	150W OPERATIONAL AMPLIFIER
LM13080N	DIP8	OPAMP2-TRIM	PROGRAMMABLE POWER OP AMP
LM133K	TO-204AA	VR-3TERM	3 AMP, ADJUSTABLE NEGATIVE REGULATO
LM13600AN	DIP16	LM13600	DUAL, TRANSCONDUCTANCE AMP WITH LINEARIZING DIODE/BUFFER
LM13600M	SO16NB	LM13600	DUAL, TRANSCONDUCTANCE AMP WITH LINEARIZING DIODE/BUFFER
LM13600N	DIP16	LM13600	DUAL, TRANSCONDUCTANCE AMP WITH LINEARIZING DIODE/BUFFER
LM13700AN	DIP16	LM13600	DUAL, TRANSCONDUCTANCE AMP WITH LINEARIZING DIODE/BUFFER
LM13700M	SO16NB	LM13600	DUAL, TRANSCONDUCTANCE AMP WITH LINEARIZING DIODE/BUFFER
LM13700N	DIP16	LM13600	DUAL, TRANSCONDUCTANCE AMP WITH LINEARIZING DIODE/BUFFER
LM137H	TO-39	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LM137HVH	TO-39	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
LM137HVK	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
LM137K	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
LM138AK	TO-204AA	VR-3TERM	5 AMP,ADJUSTABLE REGULATOR
LM138K	TO-204AA	VR-3TERM	5 AMP,ADJUSTABLE REGULATOR
LM139AJ	DIP14	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
LM139J	DIP14	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
LM140AK-12	TO-204AA	VR-3TERM	12 VOLT,POSITIVE VOLTAGE REGULATOR
LM140AK-15	TO-204AA	VR-3TERM	15 VOLT,POSITIVE VOLTAGE REGULATOR
LM140AK-5.0	TO-204AA	VR-3TERM	5 VOLT,POSITIVE VOLTAGE REGULATOR
LM140K-12	TO-204AA	VR-3TERM	12 VOLT,POSITIVE VOLTAGE REGULATOR
LM140K-15	TO-204AA	VR-3TERM	15 VOLT,POSITIVE VOLTAGE REGULATOR
LM140K-5.0	TO-204AA	VR-3TERM	5 VOLT,POSITIVE VOLTAGE REGULATOR
LM140LAH-12	TO-39	VR-3TERM	12 VOLT,POSITIVE VOLTAGE REGULATOR
LM140LAH-15	TO-39	VR-3TERM	15 VOLT,POSITIVE VOLTAGE REGULATOR
LM140LAH-5.0	TO-39	VR-3TERM	5 VOLT,POSITIVE VOLTAGE REGULATOR
LM1414J	DIP14	OPAMP-C	DUAL, DIFFERENTIAL VOLTAGE COMPARATOR
LM1414N	DIP14	OPAMP-C	DUAL, DIFFERENTIAL VOLTAGE COMPARATOR
LM143H	TO-99	OPAMP2-TRIM	HIGH VOLTAGE OPERATIONAL AMPLIFIER
LM144H	TO-99	OPAMP2-TRIM-C	HIGH VOLTAGE/HIGH SLEW RATE OP AMP
LM1458H	TO-99	OPAMP2	DUAL OP AMP
LM1458J	DIP8	OPAMP2	DUAL OP AMP
LM1458M	SO8NB	OPAMP2	DUAL OP AMP
LM1458N	DIP8	OPAMP2	DUAL OP AMP
LM145K-5.0	TO-204AA	VR-3TERM	NEGATIVE,5 VOLT,3 AMP REGULATOR

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LM145K-5.2	TO-204AA	VR-3TERM	NEGATIVE,5.2 VOLT,3 AMP REGULATOR
LM146J	DIP16	OPAMP-C:OPAMP2	QUAD, PROGRAMMABLE OP AMP
LM148J	DIP14	OPAMP2	QUAD,741 OP AMP
LM149J	DIP14	OPAMP2	QUAD,WIDE BAND DECOMPENSATED OP AM
LM150AK	TO-204AA	VR-3TERM	3 AMP ADJUSTABLE REGULATOR
LM150K	TO-204AA	VR-3TERM	3 AMP ADJUSTABLE REGULATOR
LM1514J	DIP14	OPAMP-C	DUAL, DIFFERENTIAL VOLTAGE COMPARATOR
LM1524DJ	DIP16	LM494	REGULATING PULSE WIDTH MODULATED
LM1524DN	DIP16	LM494	REGULATING PULSE WIDTH MODULATED
LM1525AJ	DIP16	LM1525A	PULSE WIDTH MODULATOR
LM1527AJ	DIP16	LM1525A	PULSE WIDTH MODULATOR
LM1558H	TO-99	OPAMP2	DUAL OP AMP
LM1558J	DIP8	OPAMP2	DUAL OP AMP
LM1575K-5.0	K04A	VR-5TERM	SIMPLE SWITCHER STEP-DOWN VOLTAGE REGULATOR
LM1578AH	TO-99	VR-DIP8	SWITCHING REGULATOR
LM158AH	TO-99	OPAMP2	DUAL,LOW POWER OP AMP
LM158AJ	DIP8	OPAMP2	DUAL,LOW POWER OP AMP
LM158H	TO-99	OPAMP2	DUAL,LOW POWER OP AMP
LM158J	DIP8	OPAMP2	DUAL,LOW POWER OP AMP
LM160H	TO-99	LM160	HIGH SPEED DIFFERENTIAL COMPARATOR
LM160J-14	DIP14	LM160	HIGH SPEED DIFFERENTIAL COMPARATOR
LM161H	TO-100	LM161	HIGH SPEED DIFFERENTIAL COMPARATOR
LM193AH	TO-99	OPAMP	DUAL, LOW POWER LOW OFFSET COMPARATOR
LM193H	TO-99	OPAMP	DUAL, LOW POWER LOW OFFSET COMPARATOR
LM196K	TO-204AE	VR-3TERM	10 AMP ADJUSTABLE VOLTAGE REGULATO
LM201AH	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM201AN	DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LM204H	TO-100	LM104	NEGATIVE REGULATOR
LM205H	TO-99	LM105	POSITIVE VOLTAGE REGULATOR
LM206H	H08	OPAMP-TRIM	VOLTAGE COMPARATOR
LM207H	TO-99	OPAMP2	OPERATIONAL AMPLIFIER
LM207J	DIP8	OPAMP2	OPERATIONAL AMPLIFIER
LM208AH	TO-99	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM208AJ-8	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM208H	TO-99	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM208J-8	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
LM210H	TO-99	BUF-TRIM-C	VOLTAGE FOLLOWER
LM210J	DIP14	BUF-TRIM-C	VOLTAGE FOLLOWER
LM211H	TO-99	OPAMP-TRIM	VOLTAGE COMPARATOR
LM211J	DIP14	OPAMP-TRIM	VOLTAGE COMPARATOR
LM211J-8	DIP8	OPAMP-TRIM	VOLTAGE COMPARATOR
LM212H	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM218H	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM219J	DIP14	OPAMP	DUAL, HIGH SPEED COMPARATOR
LM221H	TO-99	LM221	PRECISION PREAMPLIFIER
LM224AJ	DIP14	OPAMP2	QUAD,LOW POWER OP AMP
LM224J	DIP14	OPAMP2	QUAD,LOW POWER OP AMP
LM239AJ	DIP14	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
LM239J	DIP14	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
LM246J	DIP16	OPAMP-C:OPAMP2	QUAD, PROGRAMMABLE OP AMP
LM248J	DIP14	OPAMP2	QUAD,741 OP AMP
LM249J	DIP14	OPAMP2	QUAD,WIDE BAND DECOMPENSATED OP AMP
LM2524DJ	DIP16	LM494	REGULATING PULSE WIDTH MODULATED
LM2524DN	DIP16	LM494	REGULATING PULSE WIDTH MODULATED
LM2575K-5.0	K04A	VR-5TERM	SIMPLE SWITCHER STEP-DOWN VOLTAGE REGULATOR

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LM2575T-5.0	TO5A	VR-5TERM	SIMPLE SWITCHER STEP-DOWN VOLTAGE REGULATOR
LM2578AH	TO-99	VR-DIP8	SWITCHING REGULATOR
LM2578AN	DIP8	VR-DIP8	SWITCHING REGULATOR
LM2579T	TA11B	VR-DIP8	SWITCHING REGULATOR
LM258AH	TO-99	OPAMP2	DUAL,LOW POWER OP AMP
LM258H	TO-99	OPAMP2	DUAL,LOW POWER OP AMP
LM260H	TO-99	LM160	HIGH SPEED DIFFERENTIAL COMPARATOR
LM261H	TO-100	LM161	HIGH SPEED DIFFERENTIAL COMPARATOR
LM2879T	TA11B	LM2879	DUAL CHANNEL 8WATT AMPLIFIER
LM2900N	DIP14	OPAMP2	QUAD,OPERATIONAL AMPLIFIER
LM2901J	DIP14	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
LM2901M	SO14NB	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
LM2901N	DIP14	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
LM2902M	SO14NB	OPAMP	QUAD,LOW POWER OP AMP
LM2902N	DIP14	OPAMP	QUAD,LOW POWER OP AMP
LM2903M	SO8NB	OPAMP	DUAL, LOW POWER LOW OFFSET COMPARATOR
LM2903N	DIP8	OPAMP	DUAL, LOW POWER LOW OFFSET COMPARATOR
LM2904M	SO8NB	OPAMP	DUAL,LOW POWER OP AMP
LM2904N	DIP8	OPAMP	DUAL,LOW POWER OP AMP
LM2924J	DIP8	OPAMP2	DUAL,LOW POWER OP AMP/VOLTAGE COMPARATOR
LM2924M	SO8NB	OPAMP2	DUAL,LOW POWER OP AMP/VOLTAGE COMPARATOR
LM2924N	DIP8	OPAMP2	DUAL,LOW POWER OP AMP/VOLTAGE COMPARATOR
LM2925T	TO5A	VR-5TERM	LOW DROPOUT REGULATOR WITH DELAYE RESET



**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LM2930T-5.0	TO-220	VR-3TERM	5 VOLT, POSITIVE REGULATOR
LM2930T-8.0	TO-220	VR-3TERM	8 VOLT, POSITIVE REGULATOR
LM2931AT-5.0	TO-220	VR-3TERM	5 VOLT,LOW DROPOUT REGULATOR
LM2931AZ-5.0	TO-92	VR-3TERM	5 VOLT,LOW DROPOUT REGULATOR
LM2931CT	TO5A	VR-5TERM	ADJUSTABLE LOW DROPOUT REGULATOR
LM2931T-5.0	TO-220	VR-3TERM	5 VOLT,LOW DROPOUT REGULATOR
LM2931Z-5.0	TO-92	VR-3TERM	5 VOLT,LOW DROPOUT REGULATOR
LM2935T	TO5A	VR-5TERM	LOW DROPOUT DUAL REGULATOR
LM2936Z	TO-92	VR-3TERM	5 VOLT,ULTRA-LOW QUIESCENT CURRENT REGULATOR
LM293AH	TO-99	OPAMP	DUAL, LOW POWER LOW OFFSET COMPARATOR
LM293H	TO-99	OPAMP	DUAL, LOW POWER LOW OFFSET COMPARATOR
LM2940CT-12	TO-220	VR-3TERM	12 VOLT,1 AMP LOW DROPOUT REGULATOR
LM2940CT-15	TO-220	VR-3TERM	15 VOLT,1 AMP LOW DROPOUT REGULATOR
LM2940CT-5.0	TO-220	VR-3TERM	5 VOLT,1 AMP LOW DROPOUT REGULATOR
LM2940T-10	TO-220	VR-3TERM	10 VOLT,1 AMP LOW DROPOUT REGULATOR
LM2940T-5.0	TO-220	VR-3TERM	5 VOLT,1 AMP LOW DROPOUT REGULATOR
LM2940T-8.0	TO-220	VR-3TERM	8 VOLT,1 AMP LOW DROPOUT REGULATOR
LM2941CT	TO5A	VR-5TERM	1 AMP LOW DROPOUT ADJUSTABLE REGULATOR
LM2941T	TO5A	VR-5TERM	1 AMP LOW DROPOUT ADJUSTABLE REGULATOR
LM2984CT	TA11B	LM2984C	MICROPROCESSOR POWER SUPPLY SYSTEM
LM301AH	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM301AJ	DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM301AN	DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM302H	TO-99	BUF-TRIM-C	VOLTAGE FOLLOWER
LM304H	TO-100	LM104	NEGATIVE REGULATOR
LM305AH	TO-99	LM105	POSITIVE VOLTAGE REGULATOR

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
M305H	TO-99	LM105	POSITIVE VOLTAGE REGULATOR
M306H	H08	OPAMP-TRIM	VOLTAGE COMPARATOR
M307H	TO-99	OPAMP2	OPERATIONAL AMPLIFIER
M307J	DIP8	OPAMP2	OPERATIONAL AMPLIFIER
M307M	SO8NB	OPAMP2	OPERATIONAL AMPLIFIER
M307N	DIP8	OPAMP2	OPERATIONAL AMPLIFIER
M3080AN	DIP8	OPAMP-C	OPERATIONAL TRANSCONDUCTANCE AMPLIFIER
M3080N	DIP8	OPAMP-C	OPERATIONAL TRANSCONDUCTANCE AMPLIFIER
M308AH	TO-99	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M308AJ-8	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M308AM	SO8NB	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M308AN	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M308H	TO-99	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M308J-8	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M308M	SO8NB	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M308N	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M309H	TO-39	VR-3TERM	5 VOLT REGULATOR
M309K	TO-204AA	VR-3TERM	5 VOLT REGULATOR
M310H	TO-99	BUF-TRIM-C	VOLTAGE FOLLOWER
M310J	DIP14	BUF-TRIM-C	VOLTAGE FOLLOWER
M310M	SO8NB	BUF-TRIM-C	VOLTAGE FOLLOWER
M310N	DIP8	BUF-TRIM-C	VOLTAGE FOLLOWER
M311H	TO-99	OPAMP-TRIM	VOLTAGE COMPARATOR
M311J	DIP14	OPAMP-TRIM	VOLTAGE COMPARATOR
M311J-8	DIP8	OPAMP-TRIM	VOLTAGE COMPARATOR
M311M	SO8NB	OPAMP-TRIM	VOLTAGE COMPARATOR
M311N	DIP8	OPAMP-TRIM	VOLTAGE COMPARATOR
M311N-14	DIP14	OPAMP-TRIM	VOLTAGE COMPARATOR

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LM312H	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM317AH	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317AT	TO-220	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317H	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317HVH	TO-39	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317HVK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317LM	SO8NB	VR-DIP8	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317LZ	TO-92	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317MP	TO-202	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM317T	TO-220	VR-3TERM	POSITIVE VOLTAGE REGULATOR; ADJUSTABLE
LM318H	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM318J-8	DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM318M	SO8NB	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM318N	DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
LM319AH	TO-100	OPAMP	DUAL, HIGH SPEED COMPARATOR
LM319AJ	DIP14	OPAMP	DUAL, HIGH SPEED COMPARATOR
LM319AM	SO14NB	OPAMP	DUAL, HIGH SPEED COMPARATOR
LM319AN	DIP14	OPAMP	DUAL, HIGH SPEED COMPARATOR
LM319H	TO-100	OPAMP	DUAL, HIGH SPEED COMPARATOR
LM319J	DIP14	OPAMP	DUAL, HIGH SPEED COMPARATOR

**Table 9-1. National Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
LM319M	SO14NB	OPAMP	DUAL, HIGH SPEED COMPARATOR
LM319N	DIP14	OPAMP	DUAL, HIGH SPEED COMPARATOR
LM320H-12	TO-39	VR-3TERM	12 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320H-15	TO-39	VR-3TERM	15 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320H-5.0	TO-39	VR-3TERM	5 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320K-12	TO-204AA	VR-3TERM	12 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320K-15	TO-204AA	VR-3TERM	15 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320K-5.0	TO-204AA	VR-3TERM	5 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320KC-12	TO-204AA	VR-3TERM	12 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320KC-15	TO-204AA	VR-3TERM	15 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320KC-5.0	TO-204AA	VR-3TERM	5 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320LZ-12	TO-92	VR-3TERM	12 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320LZ-15	TO-92	VR-3TERM	15 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320LZ-5.0	TO-92	VR-3TERM	5 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320MP-12	TO-202	VR-3TERM	12 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320MP-15	TO-202	VR-3TERM	15 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320MP-5.0	TO-202	VR-3TERM	5 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320T-12	TO-220	VR-3TERM	12 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320T-15	TO-220	VR-3TERM	15 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM320T-5.0	TO-220	VR-3TERM	5 VOLT, 3 TERMINAL NEGATIVE REGULATO
LM321AH	TO-99	LM221	PRECISION PREAMPLIFIER
LM321H	TO-99	LM221	PRECISION PREAMPLIFIER
LM323AK	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; +5VOLT C 3.0 AMPS
LM323K	TO-204AA	VR-3TERM	POSITIVE VOLTAGE REGULATOR; +5VOLT C 3.0 AMPS
LM324AJ	DIP14	OPAMP2	QUAD,LOW POWER OP AMP
LM324AM	SO14NB	OPAMP2	QUAD,LOW POWER OP AMP
LM324AN	DIP14	OPAMP2	QUAD,LOW POWER OP AMP
LM324J	DIP14	OPAMP2	QUAD,LOW POWER OP AMP

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
M324M	SO14NB	OPAMP2	QUAD,LOW POWER OP AMP
M324N	DIP14	OPAMP2	QUAD,LOW POWER OP AMP
M3301N	DIP14	OPAMP2	QUAD,OPERATIONAL AMPLIFIER
M3302J	DIP14	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
M3302N	DIP14	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
M3303J	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
M3303N	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
M330T-5.0	TO-220	VR-3TERM	5 VOLT, 3 TERMINAL POSITIVE REGULATOR
M333K	TO-204AA	VR-3TERM	3 AMP, ADJUSTABLE NEGATIVE REGULATOR
M333T	TO-220	VR-3TERM	3 AMP, ADJUSTABLE NEGATIVE REGULATOR
M337H	TO-39	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
M337HVH	TO-39	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
M337HVK	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
M337K	TO-204AA	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
M337LM	SO8NB	VR-DIP8	NEGATIVE VOLTAGE REGULATOR; ADJUSTABLE
M337LZ	TO-92	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
M337MP	TO-202	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
M337T	TO-220	VR-3TERM	NEGATIVE VOLTAGE REGULATOR;ADJUSTABLE
M338AK	TO-204AA	VR-3TERM	5 AMP,ADJUSTABLE REGULATOR
M338AT	TO-220	VR-3TERM	5 AMP,ADJUSTABLE REGULATOR
M338K	TO-204AA	VR-3TERM	5 AMP,ADJUSTABLE REGULATOR
M338T	TO-220	VR-3TERM	5 AMP,ADJUSTABLE REGULATOR

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LM339AJ	DIP14	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
LM339AM	SO14NB	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
LM339AN	DIP14	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
LM339J	DIP14	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
LM339M	SO14NB	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
LM339N	DIP14	OPAMP	QUAD, LOW POWER LOW OFFSET VOLTAGE COMPARATOR
LM3401N	DIP14	OPAMP2	QUAD, OPERATIONAL AMPLIFIER
LM3403J	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
LM3403M	SO14NB	OPAMP2	QUAD OPERATIONAL AMPLIFIER
LM3403N	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
LM340AK-12	TO-204AA	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR
LM340AK-15	TO-204AA	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
LM340AK-5.0	TO-204AA	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
LM340AT-12	TO-220	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR
LM340AT-15	TO-220	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
LM340AT-5.0	TO-220	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
LM340K-12	TO-204AA	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR
LM340K-15	TO-204AA	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
LM340K-5.0	TO-204AA	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
LM340KC-12	TO-204AA	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR
LM340KC-15	TO-204AA	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
LM340KC-5.0	TO-204AA	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
LM340LAH-12	TO-39	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR
LM340LAH-15	TO-39	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
LM340LAH-5.0	TO-39	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
LM340LAZ-12	TO-92	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
M340LAZ-15	TO-92	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
M340LAZ-5.0	TO-92	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
M340T-12	TO-220	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR
M340T-15	TO-220	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
M340T-5.0	TO-220	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
M341P-12	TO-202	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR
M341P-15	TO-202	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
M341P-5.0	TO-202	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
M341T-12	TO-220	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR
M341T-15	TO-220	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
M341T-5.0	TO-220	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
M342P-12	TO-202	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR
M342P-15	TO-202	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
M342P-5.0	TO-202	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
M343H	TO-99	OPAMP2-TRIM	HIGH VOLTAGE OPERATIONAL AMPLIFIER
M344H	TO-99	OPAMP2-TRIM-C	HIGH VOLTAGE/HIGH SLEW RATE OP AMP
M345K-5.0	TO-204AA	VR-3TERM	NEGATIVE, 5 VOLT, 3 AMP REGULATOR
M345K-5.2	TO-204AA	VR-3TERM	NEGATIVE, 5.2 VOLT, 3 AMP REGULATOR
M346J	DIP16	OPAMP-C:OPAMP2	QUAD, PROGRAMMABLE OP AMP
M346M	SO16NB	OPAMP-C:OPAMP2	QUAD, PROGRAMMABLE OP AMP
M346N	DIP16	OPAMP-C:OPAMP2	QUAD, PROGRAMMABLE OP AMP
M348J	DIP14	OPAMP2	QUAD, 741 OP AMP
M348M	SO14NB	OPAMP2	QUAD, 741 OP AMP
M348N	DIP14	OPAMP2	QUAD, 741 OP AMP
M349J	DIP14	OPAMP2	QUAD, WIDE BAND DECOMPENSATED OP AMP
M349N	DIP14	OPAMP2	QUAD, WIDE BAND DECOMPENSATED OP AMP
M3503J	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
M350AK	TO-204AA	VR-3TERM	3 AMP ADJUSTABLE REGULATOR
M350AT	TO-220	VR-3TERM	3 AMP ADJUSTABLE REGULATOR
M350K	TO-204AA	VR-3TERM	3 AMP ADJUSTABLE REGULATOR



**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LM350T	TO-220	VR-3TERM	3 AMP ADJUSTABLE REGULATOR
LM3524DJ	DIP16	LM494	REGULATING PULSE WIDTH MODULATED
LM3524DN	DIP16	LM494	REGULATING PULSE WIDTH MODULATED
LM3525AJ	DIP16	LM1525A	PULSE WIDTH MODULATOR
LM3525AN	DIP16	LM1525A	PULSE WIDTH MODULATOR
LM3527AJ	DIP16	LM1525A	PULSE WIDTH MODULATOR
LM3527AN	DIP16	LM1525A	PULSE WIDTH MODULATOR
LM3578AH	TO-99	VR-DIP8	SWITCHING REGULATOR
LM3578AM	SO8NB	VR-DIP8	SWITCHING REGULATOR
LM3578AN	DIP8	VR-DIP8	SWITCHING REGULATOR
LM358AH	TO-99	OPAMP2	DUAL,LOW POWER OP AMP
LM358AM	SO8NB	OPAMP2	DUAL,LOW POWER OP AMP
LM358AN	DIP8	OPAMP2	DUAL,LOW POWER OP AMP
LM358H	TO-99	OPAMP2	DUAL,LOW POWER OP AMP
LM358J	DIP8	OPAMP2	DUAL,LOW POWER OP AMP
LM358M	SO8NB	OPAMP2	DUAL,LOW POWER OP AMP
LM358N	DIP8	OPAMP2	DUAL,LOW POWER OP AMP
LM359J	DIP14	OPAMP2-TRIM-C	HIGH SPEED, PROGRAMMABLE, CURRENT NODE AMPLIFIER
LM359M	SO14NB	OPAMP2-TRIM-C	HIGH SPEED, PROGRAMMABLE, CURRENT NODE AMPLIFIER
LM359N	DIP14	OPAMP2-TRIM-C	HIGH SPEED, PROGRAMMABLE, CURRENT NODE AMPLIFIER
LM360H	TO-99	LM160	HIGH SPEED DIFFERENTIAL COMPARATOR
LM360J-14	DIP14	LM160	HIGH SPEED DIFFERENTIAL COMPARATOR
LM360M	SO8NB	LM160	HIGH SPEED DIFFERENTIAL COMPARATOR
LM360N	DIP8	LM160	HIGH SPEED DIFFERENTIAL COMPARATOR
LM360N-14	DIP14	LM160	HIGH SPEED DIFFERENTIAL COMPARATOR
LM361H	TO-100	LM161	HIGH SPEED DIFFERENTIAL COMPARATOR
LM363H-10	TO-99	OPAMP-TRIM-C	PRECISION INSTRUMENTATION AMPLIFIER
LM363H-100	TO-99	OPAMP-TRIM-C	PRECISION INSTRUMENTATION AMPLIFIER



**Table 9-1. National Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
LM363H-500	TO-99	OPAMP-TRIM-C	PRECISION INSTRUMENTATION AMPLIFIER
LM376N	DIP8	LM105	POSITIVE VOLTAGE REGULATOR
LM383	TO5B	OPAMP\PWR1:OPAMP\PWR 2	7 WATT AUDIO AMPLIFIER
LM3900M	SO14NB	OPAMP2	QUAD, OPERATIONAL AMPLIFIER
LM3900N	DIP14	OPAMP2	QUAD, OPERATIONAL AMPLIFIER
LM392M	SO8NB	OPAMP2	DUAL, LOW POWER OP AMP/VOLTAGE COMPARATOR
LM392N	DIP8	OPAMP2	DUAL, LOW POWER OP AMP/VOLTAGE COMPARATOR
LM393AH	TO-99	OPAMP	DUAL, LOW POWER LOW OFFSET COMPARATOR
LM393AJ	DIP8	OPAMP	DUAL, LOW POWER LOW OFFSET COMPARATOR
LM393AN	DIP8	OPAMP	DUAL, LOW POWER LOW OFFSET COMPARATOR
LM393H	TO-99	OPAMP	DUAL, LOW POWER LOW OFFSET COMPARATOR
LM393J	DIP8	OPAMP	DUAL, LOW POWER LOW OFFSET COMPARATOR
LM393M	SO8NB	OPAMP	DUAL, LOW POWER LOW OFFSET COMPARATOR
LM393N	DIP8	OPAMP	DUAL, LOW POWER LOW OFFSET COMPARATOR
LM396K	TO-204AE	VR-3TERM	10 AMP ADJUSTABLE VOLTAGE REGULATO
LM4136CJ	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
LM4136CM	SO14NB	OPAMP2	QUAD OPERATIONAL AMPLIFIER
LM4136CN	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
LM4250CH	TO-99	OPAMP2-TRIM-C	PROGRAMMABLE OPERATIONAL AMPLIFIE
LM4250CJ	DIP8	OPAMP2-TRIM-C	PROGRAMMABLE OPERATIONAL AMPLIFIE
LM4250CN	DIP8	OPAMP2-TRIM-C	PROGRAMMABLE OPERATIONAL AMPLIFIE
LM4250H	TO-99	OPAMP2-TRIM-C	PROGRAMMABLE OPERATIONAL AMPLIFIE
LM4250J	DIP8	OPAMP2-TRIM-C	PROGRAMMABLE OPERATIONAL AMPLIFIE

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LM4250M	SO8NB	OPAMP2-TRIM-C	PROGRAMMABLE OPERATIONAL AMPLIFIER
LM431ACM	SO8NB	VR-DIP8	ADJUSTABLE PRECISION ZENER SHUNT REGULATOR
LM431ACZ	TO-92	VR-3TERM	ADJUSTABLE PRECISION ZENER SHUNT REGULATOR
LM431AIZ	TO-92	VR-3TERM	ADJUSTABLE PRECISION ZENER SHUNT REGULATOR
LM494CJ	DIP16	LM494	PULSE WIDTH MODULATED CONTROL CIRCUIT
LM494CN	DIP16	LM494	PULSE WIDTH MODULATED CONTROL CIRCUIT
LM494IN	DIP16	LM494	PULSE WIDTH MODULATED CONTROL CIRCUIT
LM604ACM	SO20WB	LM604	4 CHANNEL MUX-AMP
LM604ACN	DIP18	LM604	4 CHANNEL MUX-AMP
LM604AMJ	DIP18	LM604	4 CHANNEL MUX-AMP
LM604CM	SO20WB	LM604	4 CHANNEL MUX-AMP
LM604CN	DIP18	LM604	4 CHANNEL MUX-AMP
LM604IJ	DIP18	LM604	4 CHANNEL MUX-AMP
LM604IN	DIP18	LM604	4 CHANNEL MUX-AMP
LM607ACH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
LM607ACN	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
LM607AMH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
LM607AMJ	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
LM607BCH	TO-99	OPAMP-TRIM-C	PRECISION OP AMP
LM607BCN	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
LM607BMH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
LM607BMJ	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
LM607CH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
LM607CN	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
LM6118H	H08	OPAMP2	DUAL,FAST SETTLING OP AMP
LM6118J	DIP8	OPAMP2	DUAL,FAST SETTLING OP AMP
LM611AIN	DIP8	OPAMP2:ADJREF	OP AMP AND ADJUSTABLE REFERENCE
LM611CM	SO14NB	OPAMP2:ADJREF	OP AMP AND ADJUSTABLE REFERENCE

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LM611CN	DIP8	OPAMP2:ADJREF	OP AMP AND ADJUSTABLE REFERENCE
LM611IN	DIP8	OPAMP2:ADJREF	OP AMP AND ADJUSTABLE REFERENCE
LM611M	SO14NB	OPAMP2:ADJREF	OP AMP AND ADJUSTABLE REFERENCE
LM611MJ	DIP8	OPAMP2:ADJREF	OP AMP AND ADJUSTABLE REFERENCE
LM6121H	TO-99	BUF-4	HIGH SPEED BUFFER
LM6125H	TO-99	BUF-7	HIGH SPEED BUFFER
LM613AIN	DIP16	LM613	DUAL COMPARATOR/DUAL OP AMP/ADJUSTABLE REF.
LM613CN	DIP16	LM613	DUAL COMPARATOR/DUAL OP AMP/ADJUSTABLE REF.
LM613CWM	SO16WB	LM613	DUAL COMPARATOR/DUAL OP AMP/ADJUSTABLE REF.
LM613IJ	DIP16	LM613	DUAL COMPARATOR/DUAL OP AMP/ADJUSTABLE REF.
LM613IN	DIP16	LM613	DUAL COMPARATOR/DUAL OP AMP/ADJUSTABLE REF.
LM613MJ	DIP16	LM613	DUAL COMPARATOR/DUAL OP AMP/ADJUSTABLE REF.
LM613WM	SO16WB	LM613	DUAL COMPARATOR/DUAL OP AMP/ADJUSTABLE REF.
LM614AIN	DIP16	LM613	QUAD OP AMP/ADJUSTABLE REF.
LM614CN	DIP16	LM613	QUAD OP AMP/ADJUSTABLE REF.
LM614IJ	DIP16	LM613	QUAD OP AMP/ADJUSTABLE REF.
LM614IN	DIP16	LM613	QUAD OP AMP/ADJUSTABLE REF.
LM614IWM	SO16WB	LM613	QUAD OP AMP/ADJUSTABLE REF.
LM614MJ	DIP16	LM613	QUAD OP AMP/ADJUSTABLE REF.
LM614WM	SO16WB	LM613	QUAD OP AMP/ADJUSTABLE REF.
LM6161J	DIP8	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
LM6164J	DIP8	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
LM6165J	DIP8	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
LM6218AH	H08	OPAMP2	DUAL,FAST SETTLING OP AMP
LM6218AJ	DIP8	OPAMP2	DUAL,FAST SETTLING OP AMP

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
M6218AN	DIP8	OPAMP2	DUAL,FAST SETTLING OP AMP
M6218AWM	SO14WB	OPAMP2	DUAL,FAST SETTLING OP AMP
M6218N	DIP8	OPAMP2	DUAL,FAST SETTLING OP AMP
M6218WM	SO14WB	OPAMP2	DUAL,FAST SETTLING OP AMP
M6221H	TO-99	BUF-4	HIGH SPEED BUFFER
M6221N	DIP8	BUF-7	HIGH SPEED BUFFER
M6225H	TO-99	BUF-7	HIGH SPEED BUFFER
M6225N	DIP14	BUF-7	HIGH SPEED BUFFER
M6261J	DIP8	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
M6261N	DIP8	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
M6264J	DIP8	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
M6264N	DIP8	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
M6265J	DIP8	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
M6265N	DIP8	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
M627ACH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
M627ACJ	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M627ACN	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M627AMH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
M627AMJ	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M627BCH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
M627BCJ	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M627BCN	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M627BMH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
M627BMJ	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M627CH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
M627CJ	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M627CN	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M6313N	DIP16	LM6313	HIGH POWER OPERATIONAL AMPLIFIER
M6321N	DIP8	BUF-7	HIGH SPEED BUFFER
M6325N	DIP14	BUF-7	HIGH SPEED BUFFER

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
M6361M	SO8NB	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
M6364M	SO8NB	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
M6364N	DIP8	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
M6365M	SO8NB	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
M6365N	DIP8	OPAMP2-TRIM	HIGH SPEED OPERATIONAL AMPLIFIER
M637ACH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
M637ACJ	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M637ACN	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M637AMH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
M637AMJ	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M637BCH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
M637BCJ	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M637BCN	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M637BMH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
M637BMJ	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M637CH	TO-99	OPAMP2-TRIM-C	PRECISION OP AMP
M637CJ	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M637CN	DIP8	OPAMP2-TRIM-C	PRECISION OP AMP
M675T	TO5B	OPAMP/PWR2	POWER OPERATIONAL AMPLIFIER
M710CH	TO-99	OPAMP-TRIM-C	VOLTAGE COMPARATOR
M710CN	DIP14	OPAMP-TRIM-C	VOLTAGE COMPARATOR
M710H	TO-99	OPAMP-TRIM-C	VOLTAGE COMPARATOR
M723CH	TO-100	LM723H	VOLTAGE REGULATOR
M723CJ	DIP14	LM723J	VOLTAGE REGULATOR
M723CM	SO14NB	LM723J	VOLTAGE REGULATOR
M723CN	DIP14	LM723J	VOLTAGE REGULATOR
M723H	TO-100	LM723H	VOLTAGE REGULATOR
M723J	DIP14	LM723J	VOLTAGE REGULATOR
M725AH	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
M725CH	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
M725CN	DIP8	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
M725H	TO-99	OPAMP2-TRIM-C	OPERATIONAL AMPLIFIER
M741AH	TO-99	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M741AJ	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M741CH	TO-99	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M741CJ	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M741CM	SO8NB	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M741CN	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M741EH	TO-99	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M741EN	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M741H	TO-99	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M741J	DIP8	OPAMP2-TRIM	OPERATIONAL AMPLIFIER
M759CH	TO-99	OPAMP2-TRIM	POWER OPERATIONAL AMPLIFIER
M759H	TO-99	OPAMP2-TRIM	POWER OPERATIONAL AMPLIFIER
M776CH	H08	OPAMP2-TRIM-C	MULTI-PURPOSE PROGRAMMABLE OP AMP
M776CN	DIP8	OPAMP2-TRIM-C	MULTI-PURPOSE PROGRAMMABLE OP AMP
M776H	H08	OPAMP2-TRIM-C	MULTI-PURPOSE PROGRAMMABLE OP AMP
M7805CK	TO-204AA	VR-3TERM	5 VOLT, VOLTAGE REGULATOR
M7805CT	TO-220	VR-3TERM	5 VOLT, VOLTAGE REGULATOR
M7806CK	TO-204AA	VR-3TERM	6 VOLT, VOLTAGE REGULATOR
M7806CT	TO-220	VR-3TERM	6 VOLT, VOLTAGE REGULATOR
M7806K	TO-204AA	VR-3TERM	6 VOLT, VOLTAGE REGULATOR
M7808CK	TO-204AA	VR-3TERM	8 VOLT, VOLTAGE REGULATOR
M7808CT	TO-220	VR-3TERM	8 VOLT, VOLTAGE REGULATOR
M7808K	TO-204AA	VR-3TERM	8 VOLT, VOLTAGE REGULATOR
M7812CK	TO-204AA	VR-3TERM	12 VOLT, VOLTAGE REGULATOR
M7812CT	TO-220	VR-3TERM	12 VOLT, VOLTAGE REGULATOR
M7815CK	TO-204AA	VR-3TERM	15 VOLT, VOLTAGE REGULATOR
M7815CT	TO-220	VR-3TERM	15 VOLT, VOLTAGE REGULATOR
M7818CK	TO-204AA	VR-3TERM	18 VOLT, VOLTAGE REGULATOR

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
M7818CT	TO-220	VR-3TERM	18 VOLT, VOLTAGE REGULATOR
M7818K	TO-204AA	VR-3TERM	18 VOLT, VOLTAGE REGULATOR
M7824CK	TO-204AA	VR-3TERM	24 VOLT, VOLTAGE REGULATOR
M7824CT	TO-220	VR-3TERM	24 VOLT, VOLTAGE REGULATOR
M7824K	TO-204AA	VR-3TERM	24 VOLT, VOLTAGE REGULATOR
M78L05ACH	TO-39	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
M78L05ACM	SO8NB	VR-DIP8	5 VOLT POSITIVE VOLTAGE REGULATOR
M78L05ACZ	TO-92	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
M78L09ACZ	TO-92	VR-3TERM	9 VOLT, POSITIVE VOLTAGE REGULATOR
M78L12ACH	TO-39	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR
M78L12ACM	SO8NB	VR-DIP8	12 VOLT POSITIVE VOLTAGE REGULATOR
M78L12ACZ	TO-92	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR
M78L15ACH	TO-39	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
M78L15ACM	SO8NB	VR-DIP8	15 VOLT POSITIVE VOLTAGE REGULATOR
M78L15ACZ	TO-92	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
M78L62ACZ	TO-92	VR-3TERM	6.2 VOLT, POSITIVE VOLTAGE REGULATOR
M78L82ACZ	TO-92	VR-3TERM	8.2 VOLT, POSITIVE VOLTAGE REGULATOR
M78M05CH	TO-39	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
M78M05CT	TO-220	VR-3TERM	5 VOLT, POSITIVE VOLTAGE REGULATOR
M78M06CH	TO-39	VR-3TERM	6 VOLT, POSITIVE VOLTAGE REGULATOR
M78M06CT	TO-220	VR-3TERM	6 VOLT, POSITIVE VOLTAGE REGULATOR
M78M08CH	TO-39	VR-3TERM	8 VOLT, POSITIVE VOLTAGE REGULATOR
M78M08CT	TO-220	VR-3TERM	8 VOLT, POSITIVE VOLTAGE REGULATOR
M78M12CH	TO-39	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR
M78M12CT	TO-220	VR-3TERM	12 VOLT, POSITIVE VOLTAGE REGULATOR
M78M15CH	TO-39	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
M78M15CT	TO-220	VR-3TERM	15 VOLT, POSITIVE VOLTAGE REGULATOR
M78M24CH	TO-39	VR-3TERM	24 VOLT, POSITIVE VOLTAGE REGULATOR
M78M24CT	TO-220	VR-3TERM	24 VOLT, POSITIVE VOLTAGE REGULATOR



**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LM78S40CJ	DIP16	LM78S40	UNIVERSAL SWITCHING REGULATOR SUBSYSTEM
LM78S40CN	DIP16	LM78S40	UNIVERSAL SWITCHING REGULATOR SUBSYSTEM
LM78S40J	DIP16	LM78S40	UNIVERSAL SWITCHING REGULATOR SUBSYSTEM
LM78S40N	DIP16	LM78S40	UNIVERSAL SWITCHING REGULATOR SUBSYSTEM
LM7905CK	TO-204AA	VR-3TERM	5 VOLT, NEGATIVE VOLTAGE REGULATOR
LM7905CT	TO-220	VR-3TERM	5 VOLT, NEGATIVE VOLTAGE REGULATOR
LM7908CK	TO-204AA	VR-3TERM	8 VOLT, NEGATIVE VOLTAGE REGULATOR
LM7908CT	TO-220	VR-3TERM	8 VOLT, NEGATIVE VOLTAGE REGULATOR
LM7908K	TO-204AA	VR-3TERM	8 VOLT, NEGATIVE VOLTAGE REGULATOR
LM7912CK	TO-204AA	VR-3TERM	12 VOLT, NEGATIVE VOLTAGE REGULATOR
LM7912CT	TO-220	VR-3TERM	12 VOLT, NEGATIVE VOLTAGE REGULATOR
LM7915CK	TO-204AA	VR-3TERM	15 VOLT, NEGATIVE VOLTAGE REGULATOR
LM7915CT	TO-220	VR-3TERM	15 VOLT, NEGATIVE VOLTAGE REGULATOR
LM79L05ACM	SO8NB	VR-DIP8	5 VOLT, NEGATIVE VOLTAGE REGULATOR
LM79L05ACZ	TO-92	VR-3TERM	5 VOLT, NEGATIVE VOLTAGE REGULATOR
LM79L12ACM	SO8NB	VR-DIP8	12 VOLT, NEGATIVE VOLTAGE REGULATOR
LM79L12ACZ	TO-92	VR-3TERM	12 VOLT, NEGATIVE VOLTAGE REGULATOR
LM79L15ACM	SO8NB	VR-DIP8	15 VOLT, NEGATIVE VOLTAGE REGULATOR
LM79L15ACZ	TO-92	VR-3TERM	15 VOLT, NEGATIVE VOLTAGE REGULATOR
LM79M05CP	TO-202	VR-3TERM	5 VOLT, NEGATIVE VOLTAGE REGULATOR
LM79M12CP	TO-202	VR-3TERM	12 VOLT, NEGATIVE VOLTAGE REGULATOR
LM79M15CP	TO-202	VR-3TERM	15 VOLT, NEGATIVE VOLTAGE REGULATOR
LM833M	SO8NB	OPAMP2	DUAL OPERATIONAL AMPLIFIER
LM833N	DIP8	OPAMP2	DUAL OPERATIONAL AMPLIFIER
LM837M	SO14NB	OPAMP2	QUAD,LOW NOISE OPERATIONAL AMPLIFIER
LM837N	DIP14	OPAMP2	QUAD,LOW NOISE OPERATIONAL AMPLIFIER
LMC660AIM	SO14NB	OPAMP2	QUAD OPERATIONAL AMPLIFIER



**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
LMC660AIN	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
LMC660AMD	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
LMC660CM	SO14NB	OPAMP2	QUAD OPERATIONAL AMPLIFIER
LMC660CN	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
LMC662AIM	SO8NB	OPAMP2	DUAL OP AMP
LMC662AIN	DIP8	OPAMP2	DUAL OP AMP
LMC662AMD	DIP8	OPAMP2	DUAL OP AMP
LMC662CM	SO8NB	OPAMP2	DUAL OP AMP
LMC662CN	DIP8	OPAMP2	DUAL OP AMP
LMC669BCM	SO20WB	LMC669-20	AUTO-ZERO
LMC669BCN	DIP20	LMC669-20	AUTO-ZERO
LMC669BIM	SO20WB	LMC669-20	AUTO-ZERO
LMC669BIN	DIP20	LMC669-20	AUTO-ZERO
LMC669CCM	SO20WB	LMC669-20	AUTO-ZERO
LMC669CCN	DIP20	LMC669-20	AUTO-ZERO
LMC669CD	DIP16	LMC669	AUTO-ZERO
LMC669CIM	SO20WB	LMC669-20	AUTO-ZERO
LMC669CIN	DIP20	LMC669-20	AUTO-ZERO
LMC7660IN	DIP8	VR-DIP8	SWITCHED CAPACITOR VOLTAGE CONVERTER
LMC7660MJ	DIP8	VR-DIP8	SWITCHED CAPACITOR VOLTAGE CONVERTER
LP124J	DIP14	OPAMP2	QUAD,MICROPOWER OPERATIONAL AMPLIFIER
LP265N	DIP16	OPAMP\PWR2:OPAMP2	QUAD, MICROPOWER PROGRAMMABLE COMPARATOR
LP2902M	SO14NB	OPAMP2	QUAD,MICROPOWER OPERATIONAL AMPLIFIER
LP2902N	DIP14	OPAMP2	QUAD,MICROPOWER OPERATIONAL AMPLIFIER
LP2950ACZ-5.0	TO-92	VR-3TERM	5 VOLT,MICROPOWER VOLTAGE REGULATOR
LP2950CZ-5.0	TO-92	VR-3TERM	5 VOLT,MICROPOWER VOLTAGE REGULATOR

**Table 9-1. National Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
LP2951ACJ	DIP8	LM2951	MICROPOWER VOLTAGE REGULATOR
LP2951ACM	SO8NB	LM2951	MICROPOWER VOLTAGE REGULATOR
LP2951ACN	DIP8	LM2951	MICROPOWER VOLTAGE REGULATOR
LP2951CJ	DIP8	LM2951	MICROPOWER VOLTAGE REGULATOR
LP2951CM	SO8NB	LM2951	MICROPOWER VOLTAGE REGULATOR
LP2951CN	DIP8	LM2951	MICROPOWER VOLTAGE REGULATOR
LP2951J	DIP8	LM2951	MICROPOWER VOLTAGE REGULATOR
LP311H	TO-99	OPAMP-TRIM	VOLTAGE COMPARATOR
LP311N	DIP8	OPAMP-TRIM-C	VOLTAGE COMPARATOR
LP324J	DIP14	OPAMP2	QUAD,MICROPOWER OPERATIONAL AMPLIFIER
LP324M	SO14NB	OPAMP2	QUAD,MICROPOWER OPERATIONAL AMPLIFIER
LP324N	DIP14	OPAMP2	QUAD,MICROPOWER OPERATIONAL AMPLIFIER
LP339M	SO14NB	OPAMP	QUAD, ULTRA-LOW POWER COMAPARTOR
LP339N	DIP14	OPAMP	QUAD, ULTRA-LOW POWER COMAPARTOR
LP365AN	DIP16	OPAMP\PWR2:OPAMP2	QUAD, MICROPOWER PROGRAMMABLE COMPARATOR
LP365M	SO16NB	OPAMP\PWR2:OPAMP2	QUAD, MICROPOWER PROGRAMMABLE COMPARATOR
LP365N	DIP16	OPAMP\PWR2:OPAMP2	QUAD, MICROPOWER PROGRAMMABLE COMPARATOR
PC660AIM	SO14NB	OPAMP2	QUAD,CMOS OPERATIONAL AMPLIFIER
PC660AIN	DIP14	OPAMP2	QUAD,CMOS OPERATIONAL AMPLIFIER
PC660AMD	DIP14	OPAMP2	QUAD,CMOS OPERATIONAL AMPLIFIER
PC660IM	SO14NB	OPAMP2	QUAD,CMOS OPERATIONAL AMPLIFIER
PC660IN	DIP14	OPAMP2	QUAD,CMOS OPERATIONAL AMPLIFIER
PC662AIM	SO8NB	OPAMP2	DUAL,CMOS OP AMP
PC662AIN	DIP8	OPAMP2	DUAL,CMOS OP AMP
PC662AMD	DIP8	OPAMP2	DUAL,CMOS OP AMP
PC662IM	SO8NB	OPAMP2	DUAL,CMOS OP AMP

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
PC662IN	DIP8	OPAMP2	DUAL,CMOS OP AMP
NMC2732	DIP24-600	RE4K8	8K X 8 BIT EPROM
NS16450	DIP40-600	8250	Enhanced 8250 Async coms controller
NS16550A	DIP40-600	16550	Enhanced 8250 Async coms controller
NS32016	DIP48-600	32016	HIGH-PERFORMANCE MICROPROCESSOR
NS32032	LCC68SQ:PGA-68PB	32032	HIGH-PERFORMANCE MICROPROCESSOR
NS32081	DIP24-600	32081	FLOATING-POINT UNITS
NS32082	DIP48-600	32082	MEMORY MANAGEMENT UNIT (MMU)
NS32201	DIP24-600	32201	TIMING CONTROL UNIT
NS32202	DIP40-600	32202	INTERRUPT CONTROL UNIT
NS32440	DIP24-600	32440	SERIAL BI-PHASE TRANSMITTER/ENCODER
NS32440V	LCC28SQ	32440	SERIAL BI-PHASE TRANSMITTER/ENCODER 28-PIN PLCC
NS32441	DIP24-600	32441	SERIAL BI-PHASE RECEIVER/DECODER
NS32441V	LCC28SQ	32441	SERIAL BI-PHASE RECEIVER/DECODER PLCC VERSION
NS32442	DIP24-600	32442	HIGH-SPEED SERIAL TRANSMITTER/ENCODER
NS32443	DIP24-600	32443	HIGH-SPEED SERIAL RECEIVER/DECODER
NS32490C	DIP48-600	32490	NETWORK INTERFACE CONTROLLER
NS32491	DIP24-600	32491	SERIAL NETWORK INTERFACE
NS32492A	DIP16	32492	COAXIAL TRANSCEIVER INTERFACE
NS405	DIP48-600	405	SERIES DISPLAY/TERMINAL MANAGEMENT PROCESSOR (TMP)
NS4051BC	DIP16:SO16NB	4051	8 Channel ANALOGUE Multiplexer
OP-07AJ	TO-99	OPAMP2-TRIM	LOW OFFSET, LOW DRIFT OP AMP
OP-07AZ	DIP8	OPAMP2-TRIM	LOW OFFSET, LOW DRIFT OP AMP
OP-07CJ	TO-99	OPAMP2-TRIM	LOW OFFSET, LOW DRIFT OP AMP
OP-07CP	DIP8	OPAMP2-TRIM	LOW OFFSET, LOW DRIFT OP AMP
OP-07CZ	DIP8	OPAMP2-TRIM	LOW OFFSET, LOW DRIFT OP AMP
OP-07DJ	TO-99	OPAMP2-TRIM	LOW OFFSET, LOW DRIFT OP AMP

**Table 9-1. National Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
OP-07DP	DIP8	OPAMP2-TRIM	LOW OFFSET, LOW DRIFT OP AMP
OP-07EJ	TO-99	OPAMP2-TRIM	LOW OFFSET, LOW DRIFT OP AMP
OP-07EP	DIP8	OPAMP2-TRIM	LOW OFFSET, LOW DRIFT OP AMP
OP-07EZ	DIP8	OPAMP2-TRIM	LOW OFFSET, LOW DRIFT OP AMP
OP-07J	TO-99	OPAMP2-TRIM	LOW OFFSET, LOW DRIFT OP AMP
OP-07Z	DIP8	OPAMP2-TRIM	LOW OFFSET, LOW DRIFT OP AMP
TL081CP	DIP8	OPAMP2-TRIM	WIDE BANDWIDTH JFET INPUT OPERATIONAL AMPLIFIER
TL082CP	DIP8	OPAMP2	DUAL, WIDE BANDWIDTH JFET INPUT OP AMP

# Chapter 10

## PMI Library

The following table lists all the part types in the pmi sample library. This listing is based on the part types and lists any associated PCB Decals and Logic Decals. The associated PCB and/or Logic decals are not necessarily sourced from the same library as the part type.

**Table 10-1. PMI Library Part Types**

Part Type	PCB Decals	Logic Decals	Description
ADC-908	DIP18:SO18WB	ADC-908	CMOS MICROPROCESSOR, FAST 8-BIT A/D CONVERTER
ADC-910	DIP28-600	ADC-910	MICROPROCESSOR, 10-BIT HIGH SPEED A/D CONVERTER
ADC-912	DIP24-300:SO24WB	ADC-912	CMOS MICROPROCESSOR, 12-BIT A/D CONVERTER
ADC-922	DIP28-600	ADC-922	12-BIT, 3US A/D CONVERTER
AMP-01BTC	PLCC28SQ	AMP-01	LOW-NOISE PRECISION INSTRUMENTATION AMPLIFIER
AMP-01S	SO20WB	AMP-01	LOW-NOISE PRECISION INSTRUMENTATION AMPLIFIER
AMP-01X	DIP18	AMP-01	LOW-NOISE PRECISION INSTRUMENTATION AMPLIFIER
AMP-02P	DIP8	OPAMP2-TRIM-C	HIGH ACCURACY INSTRUMENTATION AMPLIFIER
AMP-02S	SO16WB	OPAMP-TRIM-COMP	HIGH ACCURACY INSTRUMENTATION AMPLIFIER
AMP-03	DIP8:TO-99	OPAMP2-TRIM	PRECISION UNITY-GAIN INSTRUMENTATION AMPLIFIER
AMP-05X	DIP18	AMP-05	FAST-SETTLING JFET INSTRUMENTATION AMPLIFIER
BUF-03	TO-99	BUF-TRIM	HIGH-SPEED VOLTAGE/FOLLOWER BUFFER
COMP-01	DIP8:TO-99	COMP	FAST PRECISION COMPARATOR
COMP-02	DIP8:TO-99	COMP	LOW-INPUT CURRENT PRECISION COMPARATOR

**Table 10-1. PMI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CMP-04	DIP14:SO14NB	OPAMP	QUAD LOW-POWER PRECISION COMPARATOR
CMP-05	DIP8:SO8NB:TO-99	COMP-LATCH	FAST PRECISION COMPARATOR WITH LATCH
CMP-08	DIP8:SO8NB	COMP-ECL	FAST COMPARATOR WITH ECL OUTPUTS
CMP-404	DIP14	OPAMP	QUAD LOW-POWER PRECISION COMPARATOR
DAC-01	DIP14	DAC-6BIT	6-BIT VOLTAGE-OUTPUT D/A CONVERTER
DAC-02	DIP18	DAC-10BIT	10-BIT PLUS-SIGN VOLTAGE-OUTPUT D/A CONVERTER
DAC-03	DIP18	DAC-10BIT	10-BIT PLUS-SIGN VOLTAGE-OUTPUT D/A CONVERTER
DAC-08	DIP16	DAC-08	8-BIT HIGH SPEED MULTIPLYING D-TO-A CONVERTER
DAC-08RC	PLCC20SQ	DAC-08	8-BIT HIGH SPEED MULTIPLYING D-TO-A CONVERTER
DAC-08S	SO16NB	DAC-08	8-BIT HIGH SPEED MULTIPLYING D-TO-A CONVERTER
DAC-10	DIP18	DAC-10	10-BIT HIGH-SPEED MULTIPLYING D/A CONVERTER
DAC-100	DIP16	DAC-100	10-BIT CURRENT OUTPUT D/A CONVERTER
DAC-1408A	DIP16	DAC-08	8-BIT MULTIPLYING D-TO-A CONVERTER
DAC-20	DIP16	DAC-08	2-DIGIT BCD HIGH SPEED MULTIPLYING D-TO-A CONVERTER
DAC-210	DIP18	DAC-210	11-BIT VOLTAGE OUTPUT D/A CONVERTER
DAC-312	DIP20:SO20WB	DAC-312	12-BIT HIGH SPEED MULTIPLYING D/A CONVERTER
DAC-8012	DIP20:PLCC20SQ	DAC-8012	CMOS 12-BIT MULTIPLYING D/A CONVERTER
DAC-8043	DIP8	DAC-8043	12-BIT SERIAL INPUT MULTIPLYING CMOS D/A CONVERTER
DAC-8143	DIP16:SO16WB	DAC-8143	12-BIT SERIAL DAISY CHAIN CMOS D/A CONVERTER
DAC-8212	DIP24-600	DAC-8212	DUAL 12-BIT CMOS MULTIPLYING D/A CONVERTER
DAC-8212PC	PLCC28SQ	DAC-8212	DUAL 12-BIT CMOS MULTIPLYING D/A CONVERTER

**Table 10-1. PMI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
DAC-8221	DIP24-300:SO24WB	DAC-8212	DUAL 12-BIT CMOS MULTIPLYING D/A CONVERTER
DAC-8222	DIP24-300:SO24WB	DAC-8212	DUAL 12-BIT CMOS MULTIPLYING D/A CONVERTER
DAC-8222TC	PLCC28SQ	DAC-8212	DUAL 12-BIT CMOS MULTIPLYING D/A CONVERTER
DAC-8228	DIP20:SO20WB	DAC-8228	DUAL 8-BIT CMOS D/A CONVERTER, VOLTAGE OUTPUT
DAC-8229	DIP20:SO20WB	DAC-8229	DUAL 8-BIT CMOS D/A CONVERTER, VOLTAGE OUTPUT
DAC-8248	DIP24-300:SO24WB	DAC-8248	DUAL 12-BIT (B-BIT-BYTE) CMOS D/A CONVERTER
DAC-8408	DIP28-600:SO28WB:PLC C28SQ	DAC-8408	QUAD 8-BIT MULTIPLYING CMOS D/A CONVERTER
DAC-86	DIP18	DAC-COMPAND	COMPANDING D-TO-A CONVERTER
DAC-88	DIP18	DAC-COMPAND	COMPANDING D-TO-A CONVERTER
DAC-8800	DIP20:SO20WB	DAC-8800	OCTAL 8-BIT CMOS D/A COMVERTER
DAC-888	DIP18	DAC-888	8-BIT MICROPROCESSOR, MULTIPLYING D/A CONVERTER
DAC-89	DIP18	DAC-COMPAND	COMPANDING D-TO-A CONVERTER
M38510/10104	DIP8:TO-99	OPAMP2-TRIM	LOW-INPUT-CURRENT OPERATIONAL AMPLIFIER (MIL-SPEC)
M38510/10106	DIP16	OPAMP2-TRIM	LOW-INPUT-CURRENT OPERATIONAL AMPLIFIER (MIL-SPEC)
M38510/11004	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER (MIL-SPEC)
M38510/11401	DIP8:TO-99	OPAMP2-TRIM	LOW SUPPLY CURRENT OPERATIONAL AMPLIFIER (MIL-SPEC)
M38510/11402	DIP8:TO-99	OPAMP2-TRIM	GENERAL PURPOSE OPERATIONAL AMPLIFIER (MIL-SPEC)
M38510/11403	DIP8:TO-99	OPAMP2-TRIM	WIDE-BANDWIDTH OPERATIONAL AMPLIFIER (MIL-SPEC)
M38510/11404	DIP8:TO-99	OPAMP2-TRIM	LOW SUPPLY CURRENT OPERATIONAL AMPLIFIER (MIL-SPEC)

**Table 10-1. PMI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
M38510/11405	DIP8:TO-99	OPAMP2-TRIM	GENERAL PURPOSE OPERATIONAL AMPLIFIER (MIL-SPEC)
M38510/11406	DIP8:TO-99	OPAMP2-TRIM	WIDE-BANDWIDTH OPERATIONAL AMPLIFIER (MIL-SPEC)
M38510/13501	DIP8:TO-99	OPAMP2-TRIM	ULTRA LOW-OFFSET VOLTAGE OPERATIONAL AMPLIFIER
M38510/13502	DIP8:TO-99	OPAMP2-TRIM	ULTRA LOW-OFFSET VOLTAGE OPERATIONAL AMPLIFIER
M38510/13503	DIP8:TO-99	OPAMP2-TRIM	LOW-NOISE PRECISION OPERATIONAL AMPLIFIER
LIU-01	DIP16:SO16NB	16-PIN	SERIAL DATA RECEIVER
MAT-01	TO-78	NPN	MATCHED NPN TRANSISTOR
MAT-02BRC	PLCC20SQ	NPN	MATCHED NPN TRANSISTOR
MAT-02H	TO-78	NPN	MATCHED NPN TRANSISTOR
MAT-03BRC	PLCC20SQ	PNP	MATCHED PNP TRANSISTOR
MAT-03H	TO-78	PNP	MATCHED PNP TRANSISTOR
MAT-04	DIP14:SO14NB	NPN	QUAD MATCHED NPN TRANSISTOR
MC33182	DIP8:SO8NB	OPAMP2	DUAL JFET OPERATIONAL AMPLIFIER
MC33184	DIP14:SO14NB	OPAMP2	QUAD JFET OPERATIONAL AMPLIFIER
MC34182	DIP8:SO8NB	OPAMP2	DUAL JFET OPERATIONAL AMPLIFIER
MC34184	DIP14:SO14NB	OPAMP2	QUAD JFET OPERATIONAL AMPLIFIER
MC35182	DIP8:SO8NB	OPAMP2	DUAL JFET OPERATIONAL AMPLIFIER
MC35184	DIP14:SO14NB	OPAMP2	QUAD JFET OPERATIONAL AMPLIFIER
MUX-08	DIP16:SO16WB	MUX-08	8-CHANNEL JFET ANALOG MULTIPLEXER
MUX-08RC	PLCC20SQ	MUX-08	8-CHANNEL JFET ANALOG MULTIPLEXER
MUX-16	DIP28-600:PLCC28SQ	MUX-16	16-CHANNEL JFET ANALOG MULTIPLEXER
MUX-24	DIP16:SO16WB	MUX-24	DUAL 4-CHANNEL JFET ANALOG MULTIPLEXER
MUX-28	DIP28-600:PLCC28SQ	MUX-28	DUAL 8-CHANNEL JFET ANALOG MULTIPLEXER
MUX-88	DIP16	MUX-08	8-CHANNEL ANALOG MULTIPLEXER FOR PC CODECS



**Table 10-1. PMI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
OP-01	DIP8:TO-99	OPAMP2-TRIM	INVERTING HIGH SPEED OPERATIONAL AMPLIFIER
OP-02	DIP8:TO-99	OPAMP2-TRIM	GENERAL PURPOSE OPERATIONAL AMPLIFIER
OP-04AK	TO-100	OPAMP2	DUAL HIGH PERFORMANCE OPERATIONAL AMPLIFIER
OP-04AY	DIP14	OPAMP2-TRIM	DUAL HIGH PERFORMANCE OPERATIONAL AMPLIFIER
OP-05	DIP8:TO-99	OPAMP2-TRIM	INSTRUMENTATION OPERATIONAL AMPLIFIER
OP-06	DIP8:TO-99	OPAMP2-TRIM-C	HIGH GAIN INSTRUMENTATION OPERATIONAL AMPLIFIER
OP-07	DIP8:SO8NB:TO-99	OPAMP2-TRIM	ULTRA LOW-OFFSET VOLTAGE OPERATIONAL AMPLIFIER
OP-07RC	PLCC20SQ	OPAMP2-TRIM	ULTRA LOW-OFFSET VOLTAGE OPERATIONAL AMPLIFIER
OP-08	DIP8	OPAMP2-TRIM	PRECISION LOW-INPUT-CURRENT OPERATIONAL AMPLIFIER
OP-09	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
OP-10	DIP14	OPAMP2-TRIM	DUAL INSTRUMENTATION OPERATIONAL AMPLIFIER
OP-11	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
OP-11RC	PLCC20SQ	OPAMP2	QUAD OPERATIONAL AMPLIFIER
OP-11S	SO16WB	OPAMP2	QUAD OPERATIONAL AMPLIFIER
OP-12	DIP8:TO-99	OPAMP2	PRECISION LOW-INPUT-CURRENT OPERATIONAL AMPLIFIER
OP-14	DIP8:SO8NB:TO-99	OPAMP2	DUAL HIGH PERFORMANCE OPERATIONAL AMPLIFIER
OP-15	DIP8:SO8NB:TO-99	OPAMP2-TRIM	PRECISION JFET-INPUT OPERATIONAL AMPLIFIER
OP-16	DIP8:SO8NB:TO-99	OPAMP2-TRIM	PRECISION JFET-INPUT OPERATIONAL AMPLIFIER
OP-17	DIP8:SO8NB:TO-99	OPAMP2-TRIM	PRECISION JFET-INPUT OPERATIONAL AMPLIFIER
OP-177	DIP8:SO8NB	OPAMP2-TRIM	ULTRA PRECISION OPERATIONAL AMPLIFIER

**Table 10-1. PMI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
OP-177BRC	PLCC20SQ	OPAMP2-TRIM	ULTRA PRECISION OPERATIONAL AMPLIFIER
OP-20	DIP8:SO8NB:TO-99	OPAMP2-TRIM	MICROPOWER OPERATIONAL AMPLIFIER
OP-200ARC	PLCC20SQ	OPAMP2	DUAL OPERATIONAL AMPLIFIER
OP-200S	SO16WB	OPAMP2	DUAL OPERATIONAL AMPLIFIER
OP-200Z	DIP8	OPAMP2	DUAL OPERATIONAL AMPLIFIER
OP-207	DIP14	OPAMP2-TRIM	DUAL ULTRA-LOW VOS OPERATIONAL AMPLIFIER
OP-21	DIP8:SO8NB:TO-99	OPAMP2-TRIM	LOW-POWER OPERATIONAL AMPLIFIER
OP-215	DIP8:TO-99	OPAMP2	DUAL JFET INPUT OPERATIONAL AMPLIFIER
OP-215BRC	PLCC20SQ	OPAMP2-TRIM	DUAL JFET INPUT OPERATIONAL AMPLIFIER
OP-215S	SO8NB	OPAMP2	DUAL JFET INPUT OPERATIONAL AMPLIFIER
OP-22	DIP8:SO8NB:TO-99	OPAMP2-TRIM-C	PROGRAMMABLE MICROPOWER OPERATIONAL AMPLIFIER
OP-220	DIP8:TO-99	OPAMP2	DUAL MICROPOWER OPERATIONAL AMPLIFIER
OP-220S	SO8NB	OPAMP2	DUAL MICROPOWER OPERATIONAL AMPLIFIER
OP-221	DIP8:TO-99	OPAMP2	DUAL LOW-POWER OPERATIONAL AMPLIFIER
OP-221S	SO8NB	OPAMP2	DUAL LOW-POWER OPERATIONAL AMPLIFIER
OP-227	DIP14	OPAMP2-TRIM	DUAL INSTRUMENTATION OPERATIONAL AMPLIFIER
OP-249	DIP8:TO-99	OPAMP2	DUAL PRECISION OPERATIONAL AMPLIFIER
OP-249ARC	PLCC20SQ	OPAMP2	DUAL PRECISION OPERATIONAL AMPLIFIER
OP-249S	SO8NB	OPAMP2	DUAL PRECISION OPERATIONAL AMPLIFIER
OP-260	DIP8:TO-99	OPAMP2	DUAL HIGH SPEED OPERATIONAL AMPLIFIER
OP-260ARC	PLCC20SQ	OPAMP2	DUAL HIGH SPEED OPERATIONAL AMPLIFIER
OP-260S	SO16NB	OPAMP2	DUAL HIGH SPEED OPERATIONAL AMPLIFIER
OP-27	DIP8:SO8NB:TO-99	OPAMP2-TRIM	LOW-NOISE PRECISION OPERATIONAL AMPLIFIER
OP-270	DIP8	OPAMP2	DUAL PRECISION OPERATIONAL AMPLIFIER

**Table 10-1. PMI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
OP-270ARC	PLCC20SQ	OPAMP2	DUAL PRECISION OPERATIONAL AMPLIFIER
OP-270S	SO16NB	OPAMP2	DUAL PRECISION OPERATIONAL AMPLIFIER
OP-271	DIP8	OPAMP2	DUAL OPERATIONAL AMPLIFIER
OP-271ARC	PLCC20SQ	OPAMP2	DUAL OPERATIONAL AMPLIFIER
OP-271S	SO16NB	OPAMP2	DUAL OPERATIONAL AMPLIFIER
OP-27RC	PLCC20SQ	OPAMP2-TRIM	LOW-NOISE PRECISION OPERATIONAL AMPLIFIER
OP-290	DIP8	OPAMP2	DUAL MICROPOWER OPERATIONAL AMPLIFIER
OP-290ARC	PLCC20SQ	OPAMP2	DUAL MICROPOWER OPERATIONAL AMPLIFIER
OP-290S	SO16NB	OPAMP2	DUAL MICROPOWER OPERATIONAL AMPLIFIER
OP-32	DIP8	OPAMP2-TRIM-C	PROGRAMMABLE MICROPOWER OPERATIONAL AMPLIFIER
OP-37	DIP8:SO8NB:TO-99	OPAMP2-TRIM	LOW-NOISE PRECISION OPERATIONAL AMPLIFIER
OP-37RC	PLCC20SQ	OPAMP2-TRIM	LOW-NOISE PRECISION OPERATIONAL AMPLIFIER
OP-400	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
OP-400ATC	PLCC28SQ	OPAMP2	QUAD OPERATIONAL AMPLIFIER
OP-400S	SO16WB	OPAMP2	QUAD OPERATIONAL AMPLIFIER
OP-41	DIP8:SO8NB:TO-99	OPAMP2-TRIM	LOW-BIAS-CURRENT OPERATIONAL AMPLIFIER
OP-42	DIP8:SO8NB:TO-99	OPAMP2-TRIM	PRECISION OPERATIONAL AMPLIFIER
OP-420	DIP14	OPAMP2	QUAD MICROPOWER OPERATIONAL AMPLIFIER
OP-420CRC	PLCC20SQ	OPAMP2	QUAD MICROPOWER OPERATIONAL AMPLIFIER
OP-420S	SO16WB	OPAMP2	QUAD MICROPOWER OPERATIONAL AMPLIFIER
OP-421	DIP14	OPAMP2	QUAD LOW-POWER OPERATIONAL AMPLIFIER

**Table 10-1. PMI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
OP-421S	SO16WB	OPAMP2	QUAD LOW-POWER OPERATIONAL AMPLIFIER
OP-42RC	PLCC20SQ	OPAMP2-TRIM	PRECISION OPERATIONAL AMPLIFIER
OP-43	DIP8:TO-99	OPAMP2-TRIM	JFET OPERATIONAL AMPLIFIER
OP-44	DIP8:SO8NB:TO-99	OPAMP2-TRIM	PRECISION OPERATIONAL AMPLIFIER
OP-44RC	PLCC20SQ	OPAMP2-TRIM	PRECISION OPERATIONAL AMPLIFIER
OP-470	DIP14	OPAMP2	QUAD LOW-NOISE OPERATIONAL AMPLIFIER
OP-470ARC	PLCC20SQ	OPAMP2	QUAD LOW-NOISE OPERATIONAL AMPLIFIER
OP-470ATC	PLCC28SQ	OPAMP2	QUAD LOW-NOISE OPERATIONAL AMPLIFIER
OP-470S	SO16WB	OPAMP2	QUAD LOW-NOISE OPERATIONAL AMPLIFIER
OP-471	DIP14	OPAMP2	QUAD LOW-NOISE OPERATIONAL AMPLIFIER
OP-471ARC	PLCC20SQ	OPAMP2	QUAD LOW-NOISE OPERATIONAL AMPLIFIER
OP-471ATC	PLCC28SQ	OPAMP2	QUAD LOW-NOISE OPERATIONAL AMPLIFIER
OP-471S	SO16WB	OPAMP2	QUAD LOW-NOISE OPERATIONAL AMPLIFIER
OP-490	DIP14	OPAMP2	QUAD LOW-VOLTAGE MICROPOWER OPERATIONAL AMPLIFIER
OP-490ATC	PLCC28SQ	OPAMP2	QUAD LOW-VOLTAGE MICROPOWER OPERATIONAL AMPLIFIER
OP-490S	SO16WB	OPAMP2	QUAD LOW-VOLTAGE MICROPOWER OPERATIONAL AMPLIFIER
OP-50	DIP14	OPAMP-TRIM-COMP	HIGH-OUTPUT CURRENT OPERATIONAL AMPLIFIER
OP-61	DIP8:SO8NB	OPAMP2-TRIM	PRECISION OPERATIONAL AMPLIFIER
OP-61RC	PLCC20SQ	OPAMP2-TRIM	PRECISION OPERATIONAL AMPLIFIER
OP-64	DIP8:SO8NB:TO-99	OPAMP2-TRIM-C	HIGH-SPEED OPERATIONAL AMPLIFIER
OP-64RC	PLCC20SQ	OPAMP2-TRIM-C	HIGH-SPEED OPERATIONAL AMPLIFIER
OP-77	DIP8:SO8NB:TO-99	OPAMP2-TRIM	ULTRA-LOW-OFFSET OPERATIONAL AMPLIFIER
OP-77RC	PLCC20SQ	OPAMP2-TRIM	ULTRA-LOW-OFFSET OPERATIONAL AMPLIFIER

**Table 10-1. PMI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
OP-80	DIP8:SO8NB:TO-99	OPAMP2-TRIM	ULTRA-LOW-BIAS-CURRENT OPERATIONAL AMPLIFIER
OP-90	DIP8:SO8NB	OPAMP2-TRIM	PRECISION LOW-VOLTAGE OPERATIONAL AMPLIFIER
OP-90RC	PLCC20SQ	OPAMP2-TRIM	PRECISION LOW-VOLTAGE OPERATIONAL AMPLIFIER
OP-97	DIP8:SO8NB:TO-99	OPAMP2-TRIM-C	HIGH PRECISION LOW-POWER OPERATIONAL AMPLIFIER
PKD-01	DIP14	PKD-01	MONOLITHIC PEAK DETECTOR
PM-0820	DIP20:SO20WB	PM-0820	CMOS HIGH-SPEED 8-BIT A/D CONVERTER
PM-1008	DIP8:SO8NB:TO-99	OPAMP2-TRIM	PRECISION COMPENSATED OPERATIONAL AMPLIFIER
PM-1012	DIP8:SO8NB:TO-99	OPAMP2-TRIM-C	PRECISION LOW-POWER OPERATIONAL AMPLIFIER
PM-108	DIP8:TO-99	OPAMP2-TRIM	LOW-INPUT-CURRENT OPERATIONAL AMPLIFIER
PM-108A	DIP8:TO-99	OPAMP2-TRIM	LOW-INPUT-CURRENT OPERATIONAL AMPLIFIER
PM-108ARC	PLCC20SQ	OPAMP2-TRIM	LOW-INPUT-CURRENT OPERATIONAL AMPLIFIER
PM-111	DIP8:TO-99	COMP	PRECISION VOLTAGE COMPARATOR
PM-111RC	PLCC20SQ	COMP	PRECISION VOLTAGE COMPARATOR
PM-111Y	DIP14	COMP	PRECISION VOLTAGE COMPARATOR
PM-119	DIP14	OPAMP	DUAL PRECISION COMPARATOR
PM-139	DIP14	OPAMP	QUAD LOW-POWER VOLTAGE COMPARATOR
PM-139A	DIP14	OPAMP	QUAD LOW-POWER VOLTAGE COMPARATOR
PM-139ARC	PLCC20SQ	OPAMP	QUAD LOW-POWER VOLTAGE COMPARATOR
PM-148	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
PM-155	DIP8:TO-99	OPAMP2-TRIM	LOW SUPPLY CURRENT OPERATIONAL AMPLIFIER
PM-155A	DIP8:TO-99	OPAMP2-TRIM	LOW SUPPLY CURRENT OPERATIONAL AMPLIFIER
PM-155ARC	PLCC20SQ	OPAMP2-TRIM	LOW SUPPLY CURRENT OPERATIONAL AMPLIFIER

**Table 10-1. PMI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
PM-156	DIP8:TO-99	OPAMP2-TRIM	GENERAL PURPOSE OPERATIONAL AMPLIFIER
PM-156A	DIP8:TO-99	OPAMP2-TRIM	GENERAL PURPOSE OPERATIONAL AMPLIFIER
PM-156ARC	PLCC20SQ	OPAMP2-TRIM	GENERAL PURPOSE OPERATIONAL AMPLIFIER
PM-157	DIP8:TO-99	OPAMP2-TRIM	WIDE-BANDWIDTH OPERATIONAL AMPLIFIER
PM-157A	DIP8:TO-99	OPAMP2-TRIM	WIDE-BANDWIDTH OPERATIONAL AMPLIFIER
PM-208	DIP8:TO-99	OPAMP-TRIM	LOW-INPUT-CURRENT OPERATIONAL AMPLIFIER
PM-2108	DIP16	OPAMP2-TRIM	LOW-INPUT-CURRENT OPERATIONAL AMPLIFIER
PM-2108A	DIP16	OPAMP2-TRIM	LOW-INPUT-CURRENT OPERATIONAL AMPLIFIER
PM-211	DIP8:SO8NB:TO-99	COMP	PRECISION VOLTAGE COMPARATOR
PM-211Y	DIP14	COMP	PRECISION VOLTAGE COMPARATOR
PM-219	DIP14	OPAMP	DUAL PRECISION COMPARATOR
PM-239	DIP14	OPAMP	QUAD LOW-POWER VOLTAGE COMPARATOR
PM-248	DIP14	OPAMP2	QUAD OPERATIONAL AMPLIFIER
PM-562	DIP24-600	DAC-562	12-BIT MULTIPLYING CURRENT-OUT D/A CONVERTER
PM-6012	DIP20:SO20WB	DAC-6012	12-BIT HIGH SPEED MULTIPLYING D/A CONVERTER
PM-7224	DIP18:SO18WB	DAC-7224	8-BIT CMOS D/A CONVERTER, VOLTAGE OUTPUT
PM-7224FPC	PLCC20SQ	DAC-7224	8-BIT CMOS D/A CONVERTER, VOLTAGE OUTPUT
PM-7226	DIP20:SO20WB:PLCC20SQ	DAC-7226	QUAD 8-BIT CMOS D/A CONVERTER
PM-7524	DIP16:SO16NB	DAC-7524	CMOS 8-BIT BUFFERED MULTIPLYING D/A CONVERTER
PM-7524PC	PLCC20SQ	DAC-7524	CMOS 8-BIT BUFFERED MULTIPLYING D/A CONVERTER

**Table 10-1. PMI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
PM-7528	DIP20:SO20WB:PL CC20SQ	DAC-7528	DUAL 8-BIT MULTIPLYING CMOS D/A CONVERTER
PM-7533	DIP16:SO16WB	DAC-7533	CMOS LOW-COST 10-BIT MULTIPLYING D/A CONVERTER
PM-7533PC	PLCC20SQ	DAC-7533	CMOS LOW-COST 10-BIT MULTIPLYING D/A CONVERTER
PM-7541	DIP18	DAC-7541	CMOS 12-BIT MULTIPLYING D/A CONVERTER
PM-7541A	DIP18:SO18WB	DAC-7541	CMOS 12-BIT MULTIPLYING D/A CONVERTER
PM-7541APC	PLCC20SQ	DAC-7541	CMOS 12-BIT MULTIPLYING D/A CONVERTER
PM-7542	DIP16:SO16WB	DAC-7542	12-BIT (4-BIT NIBBLE) CMOS D/A CONVERTER
PM-7542RC	PLCC20SQ	DAC-7542	12-BIT (4-BIT NIBBLE) CMOS D/A CONVERTER
PM-7543	DIP16:SO16WB	DAC-7543	12-BIT SERIAL IN MULTIPLYING D/A CONVERTER
PM-7543PC	PLCC20SQ	DAC-7543	12-BIT SERIAL IN MULTIPLYING D/A CONVERTER
PM-7545	DIP20:SO20WB:PL CC20SQ	DAC-7545	12-BIT MULTIPLYING CMOS D/A CONVERTER
PM-7548	DIP20:SO20WB:PL CC20SQ	DAC-7548	CMOS 8-BIT COMAPTIBLE, 12-BIT D/A CONVERTER
PM-7572	DIP24- 300:SO24WB	ADC-912	CMOS MICROPROCESSOR, 12-BIT A/D CONVERTER
PM-7572TC	PLCC28SQ	ADC-912	CMOS MICROPROCESSOR, 12-BIT A/D CONVERTER
PM-7574	DIP18:SO18WB	ADC-908	CMOS MICROPROCESSOR, FAST 8-BIT A/D CONVERTER
PM-7628	DIP20:SO20WB:PL CC20SQ	DAC-7628	DUAL 8-BIT MULTIPLYING CMOS D/A CONVERTER
PM-7645	DIP20:SO20WB:PL CC20SQ	DAC-7545	12-BIT MULTIPLYING CMOS D/A CONVERTER
PM308	DIP8	OPAMP-TRIM	LOW-INPUT-CURRENT OPERATIONAL AMPLIFIER
PM308A	DIP8:TO-99	OPAMP-TRIM	LOW-INPUT-CURRENT OPERATIONAL AMPLIFIER
PM355A	DIP8:TO-99	OPAMP-TRIM	LOW SUPPLY CURRENT OPERATIONAL AMPLIFIER

**Table 10-1. PMI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
PM356A	DIP8:TO-99	OPAMP-TRIM	GENERAL PURPOSE OPERATIONAL AMPLIFIER
PM357A	DIP8:TO-99	OPAMP-TRIM	WIDE-BANDWIDTH OPERATIONAL AMPLIFIER
PM741	TO-99	OPAMP2-TRIM	COMPENSATED OPERATIONAL AMPLIFIER
PM747	DIP14	OPAMP2-TRIM	DUAL COMPENSATED OPERATIONAL AMPLIFIER
REF-01	DIP8:SO8NB:TO-99	VREF-4	+10V PRECISION VOLTAGE REFERENCE
REF-01RC	PLCC20SQ	VREF-4	+10V PRECISION VOLTAGE REFERENCE
REF-02	DIP8:SO8NB:TO-99	VREF-4	+5V PRECISION VOLTAGE REFERENCE
REF-02RC	PLCC20SQ	VREF-4	+5V PRECISION VOLTAGE REFERENCE
REF-03	DIP8:SO8NB	VREF-4	+2.5V PRECISION VOLTAGE REFERENCE
REF-05	TO-99	VREF-5	+5V PRECISION VOLTAGE REFERENCE
REF-08	DIP8:SO8NB	VREF-5	-10V/10.24V VOLTAGE REFERENCE
REF-10	TO-99	VREF-4	+10V PRECISION VOLTAGE REFERENCE
REF-43	DIP8:SO8NB:TO-99	VREF-5	+2.5V LOW-POWER PRECISION VOLTAGE REFERENCE
REF-43BRC	PLCC20SQ	VREF-5	+2.5V LOW-POWER PRECISION VOLTAGE REFERENCE
RPT-82	DIP16:SO16NB	16-PIN	PCM REPEATER
RPT-83	DIP16:SO16NB	16-PIN	PCM REPEATER
RPT-85	DIP16:SO16NB	16-PIN	PCM REPEATER
RPT-86	DIP16:SO16NB	16-PIN	LOW POWER PCM REPEATER
RPT-87	DIP16:SO16NB	16-PIN	LOW POWER PCM REPEATER
SMP-10	DIP14	SMP-10	LOW-DROOP-RATE ACCURATE SAMPLE-AND-HOLD AMP
SMP-11	DIP14	SMP-10	LOW-DROOP-RATE ACCURATE SAMPLE-AND-HOLD AMP
SMP-11BRC	PLCC20SQ	SMP-10	LOW-DROOP-RATE ACCURATE SAMPLE-AND-HOLD AMP
SMP-81	DIP14	SMP-10	TELECOMMUNICATIONS SAMPLE-AND-HOLD AMP



**Table 10-1. PMI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
SSM-2013	DIP14	SSM2013	VOLTAGE CONTROLLED AMPLIFIER
SSM-2014	DIP16	16-PIN	VOLTAGE CONTROLLED AMPLIFIER
SSM-2015	DIP14	14-PIN	LOW-NOISE MICROPHONE PREAMPLIFIER
SSM-2016	DIP16	16-PIN	ULTRA LOW-NOISE AUDIO PREAMPLIFIER
SSM-2024	DIP16	VCA	QUAD CURRENT CONTROLLED AMPLIFIER
SSM-2100	DIP16	16-PIN	MONOLITHIC LOG/ANTILOG AMPLIFIER
SSM-2110	DIP18	18-PIN	TRUE RMS-TO DC CONVERTER
SSM-2122	DIP16	16-PIN	DYNAMIC RANGE PROCESSOR
SSM-2131	DIP8:SO8NB	OPAMP2-TRIM	ULTRA LOW-DISTORTION AUDIO OPERATIONAL AMPLIFIER
SSM-2134	DIP8	OPAMP2-TRIM-C	LOW-NOISE AUDIO OPERATIONAL AMPLIFIER
SSM-2139	DIP8	OPAMP2	DUAL LOW-NOISE AUDIO OPERATIONAL AMPLIFIER
SSM-2139S	SO16WB	OPAMP2	DUAL LOW-NOISE AUDIO OPERATIONAL AMPLIFIER
SSM-2141	DIP8	OPAMP2-TRIM	DIFFERENTIAL LINE RECEIVER
SSM-2210	DIP8:SO8NB	NPN	AUDIO DUAL MATCHED NPN TRANSISTOR
SSM-2220	DIP8:SO8NB	PNP	AUDIO DUAL MATCHED PNP TRANSISTOR
SSM-2300	DIP16	SSM2300	8-CHANNEL MULTIPLEXED SAMPLE-AND-HOLD
SSM-2402P	DIP14	FET-SW-SPST	DUAL AUDIO ANALOG SWITCH
SSM-2402S	SO16WB	FET-SW-SPST	DUAL AUDIO ANALOG SWITCH
SSM-2412P	DIP14	FET-SW-SPST	DUAL AUDIO ANALOG SWITCH
SSM-2412S	SO16WB	FET-SW-SPST	DUAL AUDIO ANALOG SWITCH
SW-01	DIP16	FET-SW-SPST	QUAD JFET ANALOG SWITCH, NEGATED CONTROL
SW-02	DIP16	FET-SW-SPST	QUAD JFET ANALOG SWITCH, POSITIVE CONTROL
SW-06	DIP16:SO16WB	FET-SW-SPST-ENA:FET-SW-SPST-AND	QUAD SPST JFET ANALOG SWITCH WITH ENABLE
SW-06RC	PLCC20SQ	FET-SW-SPST-ENA:FET-SW-SPST-AND	QUAD SPST JFET ANALOG SWITCH WITH ENABLE

**Table 10-1. PMI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
SW-201	DIP16:SO16WB	FET-SW-SPST	QUAD JFET ANALOG SWITCH, NEGATIVE CONTROL
SW-202	DIP16:SO16WB	FET-SW-SPST	QUAD JFET ANALOG SWITCH, POSITIVE CONTROL
SW-7510	DIP16	FET-SW-SPST	QUAD JFET ANALOG SWITCH, POSITIVE CONTROL
SW-7511	DIP16	FET-SW-SPST	QUAD JFET ANALOG SWITCH, NEGATED CONTROL

# Chapter 11

## Signetic Library

The following table lists all the part types in the signetic sample library. This listing is based on the part types and lists any associated PCB Decals and Logic Decals. The associated PCB and/or Logic decals are not necessarily sourced from the same library as the part type.

**Table 11-1. Signetic Library Part Types**

Part Type	PCB Decals	Logic Decals	Description
4316B	DIP16:SO16NB	4316	QUAD ANALOG SWITCH/MUX/DEMUX WITH ANL&DIG PWR SUPPLIES
4351B	DIP20:SO20WB	4351	8 Channel ANALOGUE Multiplexer LATCH
4352B	DIP20:SO20WB	4352	Dual 4 Chan Analog Mux/LATCH
4353B	DIP20:SO20WB	4353	Triple 2 CHan Analog MuX LATCH
63484	DIP64-900	63484	ADVANCED CRT CONTROLLER (ACRTC)
82HS195	DIP20	82HS195	16,384-BIT (4,096 X 4) BIPOLAR PROM
82HS321	DIP24-600	82HS321	32K-BIT (4096 X 8) BIPOLAR PROM
82HS641	DIP24-600	82HS641	64K-BIT (8192 X 8) BIPOLAR PROM
82S123	DIP16	82S123	256-BIT (32 X 8) BIPOLAR PROM
82S126	DIP16	82S126	1,024-BIT (256 X 4) BIPOLAR PROM
82S129	DIP16	82S129	1,024-BIT (256 X 4) BIPOLAR PROM
82S130	DIP16	82S130	2,048-BIT (512 X 4) BIPOLAR PROM
82S131	DIP16	82S130	2,048-BIT (512 X 4) BIPOLAR PROM TS
82S181	DIP24-600	82S181	8,192-BIT (1024 X 8) BIPOLAR PROM
82S185	DIP18	82S185	8,192-BIT (2048 X 4) BIPOLAR PROM
82S191	DIP24-600	82S191	16,384-BIT (2048 X 8) BIPOLAR PROM
82S191CN3	DIP24-300	82S191	16,384-BIT (2048 X 8) BIPOLAR PROM
82S23	DIP16	82S123	256-BIT (32 X 8) BIPOLAR PROM -OC
82S25	DIP16	82S25	64-BIT LOW-POWER INVERTING OUTPUT BIPOLAR RAM
77C256	DIP28-600	RE32K8	32K X 8 BIT CMOS EPROM/LATCH

**Table 11-1. Signetic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
8X305	DIP50-900	8X305	MICROCONTROLLER
8X310	DIP40-600	8X310	INTERRUPT CONTROLLER COPROCESSOR
8X320	DIP40-600	8X320	BUS INTERFACE REGISTER ARRAY
8X372	DIP24-400	8X372	ADDRESSABLE/BIDIRECTIONAL I/O PORTS
8X376	DIP24-400	8X372	ADDRESSABLE/BIDIRECTIONAL I/O PORTS
CM7555	DIP8:SO8NB	NE555	CMOS 555 TIMER BLOCK
NE5230	DIP8	NE5230	Lo Voltage Full Swing OP AMP
NE5512	DIP8	AOPAMP:AOPAMPM:AOPA MPPN	HI Perf Dual Op Amp 8 pin
NE5512-SO	SO8NB	AOPAMP:AOPAMPM:AOPA MPPN	SMD Hi Perf Dual Op Amp 8 pin
NE5514	DIP14	AOPAMP:AOPAMPPN	Hi Perf Quad OP Amp
NE5514-SO	SO16WB	AOPAMP:AOPAMPM:AOPA MPPN	SMD Hi Perf Quad OP Amp , Corner Pinning
NE5532	DIP8	AOPAMP:AOPAMPM:AOPA MPPN	Lo Noise Dual Op Amp 8 pin
NE5532-SO	SO16WB	AOPAMP:AOPAMPM:AOPA MPPN	SMD Lo Noise Dual Op Amp 8 pin
NE555	DIP8	NE555	Timer Block
NE555D	SO8NB	NE555	SMD Timer Block
NE567	DIP8	NE567	Tone Detector/ Phase Locked loop
PLC20V8	DIP24-300	20V8	24-PIN EPROM Programmable Array Logic (PAL) ELEM
PLC473	DIP24-300	PLC473	ERASABLE-PROGRAMMABLE LOGIC ARRAY
PLHS153	DIP20:LCC20SQ	PLC153	20-PIN EPROM PROGRAMMABLE LOGIC ARRAY FPLA
PLHS18P8A	DIP20:LCC20SQ	18P8	20-PIN PROGRAMMABLE ARRAY LOGIC (PAL) ELEM
PLHS473	DIP24-300	PLC473	ERASABLE-PROGRAMMABLE LOGIC ARRAY
PLHS473A	DIP24-300	PLC473	FIELD-PROGRAMMABLE LOGIC ARRAY (20 24 X 11)
PLHS501A	LCC52SQ	PLHS501	PROG MACRO LOGIC MACRO UNIT(32 X 72 X24)

**Table 11-1. Signetic Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
PLHS502A	LCC52SQ	PLHS502	PROG MACRO LOGIC SYNC/ASYNCR REG MACRO UNIT
PLMC153	DIP20:LCC20SQ	PLC153	20-PIN EPROM PROGRAMMABLE LOGIC ARRAY FPLA
PLS100	DIP28-600:LCC28SQ	PLS100	FIELD-PROGRAMMABLE LOGIC ARRAY (16 X 48 X 8)
PLS101	DIP28-600:LCC28SQ	PLS100	FIELD-PROGRAMMABLE LOGIC ARRAY (16 X 48 X 8) (OC)
PLS103	DIP28-600:LCC28SQ	PLS103	FIELD-PROGRAMMABLE GATE ARRAY (16 X 48 X 9)
PLS105	DIP28-600:LCC28SQ	PLS105	FIELD-PROGRAMMABLE LOGIC SEQUENCE (16 X 48 X 8)
PLS105A	DIP28-600:LCC28SQ	PLS105	FIELD-PROGRAMMABLE LOGIC SEQUENCE (16 X 48 X 8)
PLS151	DIP20:LCC20SQ	PLS151	FIELD PROGRAMMABLE GATE ARRAY
PLS153	DIP20:LCC20SQ	PLC153	20-PIN EPROM PROGRAMMABLE LOGIC ARRAY FPLA
PLS153A	DIP20:LCC20SQ	PLS153	FIELD PROGRAMMABLE LOGIC ARRAY
PLS155	DIP20:LCC20SQ	PLS155	FIELD PROGRAMMABLE LOGIC SEQUENCE
PLS157	DIP20:LCC20SQ	PLS157	FIELD PROGRAMMABLE LOGIC SEQUENCE
PLS159	DIP20:LCC20SQ	PLS159	FIELD PROGRAMMABLE LOGIC SEQUENCE
PLS159A	DIP20:LCC20SQ	PLS159	FIELD PROGRAMMABLE LOGIC SEQUENCE
PLS161	DIP24-300	PLS161	FIELD-PROGRAMMABLE LOGIC ARRAY (12 X 48 X 8)
PLS162	DIP24-300	PLS162	FIELD-PROGRAMMABLE ADDRESS DECODE (16 X 5)
PLS163	DIP24-300	PLS163	FIELD-PROGRAMMABLE ADDRESS DECODE (12 X 9)
PLS167	DIP24-300	PLS167	FIELD-PROGRAMMABLE LOGIC SEQUENCE (14 X 48 X 68)
PLS167A	DIP24-300	PLS167	FIELD-PROGRAMMABLE LOGIC SEQUENCE (14 X 48 X 68)
PLS168	DIP24-300	PLS168	FIELD-PROGRAMMABLE LOGIC SEQUENCE (12 X 48 X 8)

**Table 11-1. Signetic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
PLS168A	DIP24-300	PLS168	FIELD-PROGRAMMABLE LOGIC SEQUENCER (12 X 48 X 8)
PLS173	DIP24-300	PLS173	PROGRAMMABLE LOGIC ARRAY (22 X 42 X 8)
PLS173A	LCC28SQ	PLS173	PROGRAMMABLE LOGIC ARRAY (22 X 42 X 8)
PLS179	DIP24-300	PLS179	FIELD-PROGRAMMABLE LOGIC ARRAY SEQUENCER
PLS179A	DIP24-300	PLS179	FIELD-PROGRAMMABLE LOGIC ARRAY SEQUENCER
PLUS153	DIP20:LCC20SQ	PLC153	20-PIN EPROM PROGRAMMABLE LOGIC ARRAY FPLA
PLUS173	DIP24-300	PLS173	PROGRAMMABLE LOGIC ARRAY (22 X 42 X 8)
PLUS173A	DIP24-300	PLS173	PROGRAMMABLE LOGIC ARRAY (22 X 42 X 8)
PLUS405A	DIP28-600	PLUS405	FIELD-PROGRAMMABLE LOGIC SEQUENCER (16 X 64 X 8)
PLUS405A-CC	LCC28SQ	PLUS405	FIELD-PROGRAMMABLE LOGIC SEQUENCER (16 X 64 X 8)
SCB2675	DIP40-600	2675T	COLOR/MONOCHROME ATTRIBUTES CONTROLLER
SCB2675T	DIP40-600	2675T	TURBO COLOR/MONOCHROME ATTRIBUTES CONTROLLER
SCB2677	DIP40-600	2677	VIDEO ATTRIBUTES CONTROLLER (VAC)
SCB2677A	LCC44SQ	2677	VIDEO ATTRIBUTES CONTROLLER (VAC) PLCC VERSION
SCC2691	DIP24-300	2691	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART)
SCC2691A	LCC28SQ	2691	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART) PLCC
SCC2692A	LCC44SQ	2681N40	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER PLCC VERSION
SCC2692N24	DIP24-400	2681N24	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART) DIP24
SCC2692N28	DIP28-600	2681N28	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART)
SCC2692N40	DIP40-600	2681N40	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART)

**Table 11-1. Signetic Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
SCC2698	DIP64-900	2698SM	OCTAL UNIVERSAL ASYNCHRONOUS RECEIVER/TRANSMITT
SCC2698A	LCC84SQ	2698	OCTAL UNIVERSAL ASYNCHRONOUS RECEIVER/TRANSMITT PLCC
SCN2641	DIP24-400	2641	ASYNCHRONOUS COMMUNICATIONS INTERFACE
SCN2641A	LCC28SQ	2641	ASYNCHRONOUS COMMUNICATIONS INTERFACE PLCC VERSION
SCN2651	DIP28-600	2651	PROGRAMMABLE COMMUNICATIONS INTERFACE (PCI)
SCN2652	DIP40-600	2652	MULTI-PROTOCOL COMMUNICATIONS CONTROLLER (MPCC)
SCN2652A	LCC44SQ	2652	MULTI-PROTOCOL COMMUNICATIONS CONTROLLER (MPCC) (PLCC)
SCN2653	DIP16:SO16NB	2653	POLYNOMIAL GENERATOR CHECKER (PGC)
SCN2661	LCC28SQ	2661	ENHANCED PROGRAMMABLE COMMUNICATIONS INTERFACE (EPCI)
SCN2681A	LCC44SQ	2681N40	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER PLCC VERSION
SCN2681N24	DIP24-400	2681N24	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART) DIP24
SCN2681N28	DIP28-600	2681N28	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART)
SCN2681N40	DIP40-600	2681N40	DUAL ASYNCHRONOUS RECEIVER/TRANSMITTER (DUART)





# Chapter 12

## TI Library

The following table lists all the part types in the ti sample library. This listing is based on the part types and lists any associated PCB Decals and Logic Decals. The associated PCB and/or Logic decals are not necessarily sourced from the same library as the part type.

**Table 12-1. TI Library Part Types**

Part Type	PCB Decals	Logic Decals	Description
74LS375	DIP16:SO16NB	\75	4-BIT BISTABLE LATCHES
THCT1010	DIP64-900	THCT1010	16-BIT BY 16-BIT MULTIPLIER/ACCUMULATOR
THCT1010\CC	PLCC68	THCT1010	16-BIT BY 16-BIT MULTIPLIER/ACCUMULATOR
THCT2000E	DIP28-600:PLCC28SQ:LC C28SQ	THCT2000E	DIRECTION DISCRIMINATOR
THCT2000M	DIP28-600:PLCC28SQ:LC C28SQ	THCT2000E	DIRECTION DISCRIMINATOR
THCT29520	DIP24-300:SO24WB	29520	MULTILEVEL PIPELINE REGISTER
THCT29521	DIP24-300:SO24WB	29520	MULTILEVEL PIPELINE REGISTER
74LS00	DIP14:SO14NB	NAND2:NANDDM	QUAD 2-INPUT POS-NAND GATE
74LS00-CC	PLCC20SQ:LCC20 SQ	NAND2:NANDDM	QUAD 2-INPUT POSITIVE-NAND GATE
74LS00A	DIP14:SO14NB	NAND2:NANDDM	QUAD 2-INPUT POS-NAND GATE
74LS01	DIP14:SO14NB	NAND2OC:NANDDMOC	QUAD 2-INPUT POS-NAND GATE OC
74LS02	DIP14:SO14NB	NOR2:NORDM	QUAD 2-INPUT POS-NOR GATE
74LS02-CC	PLCC20SQ:LCC20 SQ	NOR2:NORDM	QUAD 2-INPUT POSITIVE-NOR GATE
74LS03	DIP14:SO14NB	NAND2OC:NANDDMOC	QUAD 2-INPUT POS-NAND GATE OC

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
03-CC	PLCC20SQ:LCC20SQ	NAND2OC:NANDDMOC	QUAD 2-INPUT POSITIVE-NAND GATE OC
03A	DIP14:SO14NB	NAND2OC:NANDDMOC	QUAD 2-INPUT POS-NAND GATE OC
04	DIP14:SO14NB	INV:INVL:INVDM:INVDML	HEX INV
04-CC	PLCC20SQ:LCC20SQ	INV:INVL:INVDM:INVDML	HEX INV
04A	DIP14:SO14NB	INV:INVL:INVDM:INVDML	HEX INV
05	DIP14:SO14NB	INVOC:INVDMOC	HEX INV OC
05-CC	PLCC20SQ:LCC20SQ	INVOC:INVDMOC	HEX INV OC
05A	DIP14:SO14NB	INVOC:INVDMOC	HEX INV OC
06	DIP14:SO14NB	INVOC:INVDMOC	HEX INV OC
07	DIP14:SO14NB	INVNONOC	HEX BUFF/DRIVER OC
08	DIP14:SO14NB	AND2	QUAD 2-INPUT POS-AND GATE
08-CC	PLCC20SQ:LCC20SQ	AND2	QUAD 2-INPUT POSITIVE-AND GATE
09	DIP14:SO14NB	AND2OC	QUAD 2-INPUT POS-AND GATE OC
09-CC	PLCC20SQ:LCC20SQ	AND2OC	QUAD 2-INPUT POSITIVE-AND GATE
10	DIP14:SO14NB	NAND3	TRIPLE 3-INPUT POS-NAND GATE
10-CC	PLCC20SQ:LCC20SQ	NAND3	TRIPLE 3-INPUT POSITIVE-NAND GATE
1000	DIP14:SO14NB	NAND2:NANDDM	QUADRUPLE 2-INPUT POSITIVE-NAND BUFFER/DRIVER
1000-CC	PLCC20SQ:LCC20SQ	NAND2:NANDDM	QUADRUPLE 2-INPUT POSITIVE-NAND BUFFER/DRIVER
1000A	DIP14:SO14NB	NAND2:NANDDM	QUADRUPLE 2-INPUT POSITIVE-NAND BUFFER/DRIVER
1002-CC	PLCC20SQ:LCC20SQ	NOR2:NORDM	QUADRUPLE 2-INPUT POSITIVE-NOR BUFFE
1002A	DIP14:SO14NB	NOR2:NORDM	QUADRUPLE 2-INPUT POSITIVE-NOR BUFFE
1003-CC	PLCC20SQ:LCC20SQ	NAND2:NANDDM	QUADRUPLE 2-INPUT POSITIVE-NAND BUFFER OC

**Table 12-1. TI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
1003A	DIP14:SO14NB	NAND2:NANDDM	QUADRUPLE 2-INPUT POSITIVE-NAND BUFFER OC
1004	DIP14:SO14NB	INV:INVL:INVDM:INVDML	HEX INVERTING DRIVER
1004-CC	PLCC20SQ:LCC20 SQ	INV:INVL:INVDM:INVDML	HEX INVERTING DRIVER
1005	DIP14:SO14NB	INV:INVL:INVDM:INVDML	HEX INVERTING BUFFERS W/OPEN-COLLECTOR OUTPUTS
1005-CC	PLCC20SQ:LCC20 SQ	INV:INVL:INVDM:INVDML	HEX INVERTING BUFFERS W/OPEN-COLLECTOR OUTPUTS
1008	DIP14:SO14NB	AND2	QUADRUPLE 2-INPUT POSITIVE-AND BUFFER/DRIVER
1008-CC	PLCC20SQ:LCC20 SQ	AND2	QUADRUPLE 2-INPUT POSITIVE-AND BUFFER/DRIVER
1008A	DIP14:SO14NB	AND2	QUADRUPLE 2-INPUT POSITIVE-AND BUFFER/DRIVER
1010A	DIP14:SO14NB	NAND3	TRIPLE 3-INPUT POSITIVE-NAND BUFFER
1010A-CC	PLCC20SQ:LCC20 SQ	NAND3	TRIPLE 3-INPUT POSITIVE-NAND BUFFER
1011A	DIP14:SO14NB	AND3	TRIPLE 3-INPUT POSITIVE-AND BUFFER
1011A-CC	PLCC20SQ:LCC20 SQ	AND3	TRIPLE 3-INPUT POSITIVE-AND BUFFER
1020A	DIP14:SO14NB	NAND4	DUAL 4-INPUT POSITIVE-NAND BUFFER
1020A-CC	PLCC20SQ:LCC20 SQ	NAND4	DUAL 4-INPUT POSITIVE-NAND BUFFER
1032	DIP14:SO14NB	OR2	QUADRUPLE 2-INPUT POSITIVE-OR BUFFER/DRIVER
1032A	DIP14:SO14NB	OR2	QUADRUPLE 2-INPUT POSITIVE-OR BUFFER/DRIVER
1032A-CC	PLCC20SQ:LCC20 SQ	OR2	QUADRUPLE 2-INPUT POSITIVE-OR BUFFER/DRIVER
1034	DIP14	INV:INVL:INVDM:INVDML	HEX DRIVER
1035	DIP14	INVNONOC	HEX NONINVERTING BUFFERS W/OPEN-COLLECTOR OUTPUTS
1036	DIP14:SO14NB	NOR2:NORDM	QUADRUPLE 2-INPUT POSITIVE-NOR DRIVE
107	DIP14:SO14NB	\107	DUAL J-K MASTER-SLAVE FLIP-FLOP

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
107-CC	PLCC20SQ:LCC20SQ	\107	DUAL J-K NEGATIVE-EDGE-TRIGGERED FLIP-FLOP
109	DIP16:SO16NB	\109	DUAL J-K POSITIVE-EDGE-TRIGGERED FLIP-FLOP
109-CC	PLCC20SQ:LCC20SQ	\109	DUAL J-K POSITIVE-EDGE-TRIGGERED FLIP-FLOP
11	DIP14:SO14NB	AND3	TRIPLE 3-INPUT POS-AND GATE
11-CC	PLCC20SQ:LCC20SQ	AND3	TRIPLE 3-INPUT POSITIVE-AND GATE
11000	DIP16:SO16NB	NAND2:NANDDM	QUAD 2-INPUT POS-NAND GATE
11002	DIP16:SO16NB	NOR2:NORDM	QUAD 2-INPUT POS-NOR GATE
11004	DIP20:SO20WB	INV:INVL:INVDM:INVDML	HEX INV
11008	DIP16:SO16NB	AND2	QUAD 2-INPUT POS-AND GATE
11010	DIP16:SO16NB	NAND3	TRIPLE 3-INPUT POS-NAND GATE
11011	DIP16:SO16NB	AND3	TRIPLE 3-INPUT POS-AND GATE
11013	DIP14:SO14NB	NAND4	QUAD 4-INPUT POS-NAND ST
11014	DIP20:SO20WB	INVST	HEX SCHMITT-TRIGGER INV
11020	DIP14:SO14NB	NAND4	DUAL 4-INPUT POS-NAND GATE
11021	DIP14:SO14NB	AND4	DUAL 4-INPUT POS-AND GATE
11027	DIP16:SO16NB	NOR3	TRIPLE 3-INPUT POS-NOR GATE
11030	DIP14:SO14NB	NAND8	8-INPUT POS-NAND GATE
11032	DIP16:SO16NB	OR2	QUAD 2-INPUT POS-OR GATE
11034	DIP20:SO20WB	INVNON:INVNONL	HEX NONINV
11074	DIP14:SO14NB	\74	DUAL D-TYPE POSITIVE-EDGE TRIGGERED
11086	DIP16:SO16NB	XOR	QUADRUPLE 2-INPUT EXCLUSIVE-OR GATE
11109	DIP16:SO16NB	\109	DUAL J-K POSITIVE-EDGE-TRIGGERED FLIP-FLOP
11112	DIP16:SO16NB	\112	DUAL J-K NEGATIVE-EDGE-TRIGGERED FLIP-FLOP
11132	DIP16:SO16NB	NANDST	QUADRUPLE 2-INPUT POSITIVE-NAND ST
11138	DIP16:SO16NB	\138	3-TO-8 LINE DECODER/MULTIPLEXERKB - Centre PWR

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
11151	DIP16:SO16NB	\151	1-OF-8 DATA SELECTOR/MULTIPLEXER - Centre PWR
11158	DIP20:SO20WB	\158	QUAD 2-TO-1-LINE DATA MUX - Centre PWR
11160	DIP20:SO20WB	\160	Sync DEC Counter
11162	DIP20:SO20WB	\160	Sync DEC Counter
11175	DIP20:SO20WB	\175	Quad D Flip-Flop
11190	DIP20:SO20WB	\190	SYNCHRONOUS UP/DOWN COUNTER
11191	DIP20:SO20WB	\190	SYNCHRONOUS UP/DOWN COUNTER
11194	DIP20:SO20WB	\194	4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER
112	DIP16:SO16NB	\112	DUAL J-K NEGATIVE-EDGE-TRIGGERED FLIP FLOP
112-CC	PLCC20SQ:LCC20 SQ	\112	DUAL J-K NEGATIVE-EDGE-TRIGGERED FLIP FLOP
11238	DIP16:SO16NB	\238	3-TO-8 LINE DECODER/MUX - Centre PWR
11240	DIP24-300:SO24WB	\240	Inv OCTAL BUFFER - Centre pinned PWR
11241	DIP24-300:SO24WB	\244:\241	NonInv OCTAL BUFFER - Centre pinned PWR
11244	DIP24-300:SO24WB	\244	NonInv OCTAL BUFFER - Centre pinned PWR
11245	DIP24-300:SO24WB	\573	OCTAL BUS TRANSCEIVER - Centre pinned PWR
11251	DIP16:SO16NB	\151	1-OF-8 DATA SELECTOR/MUX - Centre PWR
11253	DIP16:SO16NB	\153	DUAL 4-LINE TO 1-LINE DATE SELECTOR/MUX - Centre PWR
11257	DIP20:SO20WB	\157	QUAD 2-TO-1-LINE DATE SELECTOR/MUX - Centre PWR
11258	DIP20:SO20WB	\158	QUAD 2-TO-1-LINE DATE SELECTOR/MUX - Centre PWR
11280	DIP14:SO14NB	\280	9-BIT ODD/EVEN PARITY GENERATOR/CHECKER
112A	DIP16:SO16NB	\112	DUAL J-K NEGATIVE-EDGE-TRIGGERED FLIP FLOP

Table 12-1. TI Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
113	DIP14:SO14NB	\113	DUAL J-K NEGATIVE-EDGE TRIGGERED FLIP-FLOP W/PRESET
113-CC	PLCC20SQ:LCC20SQ	\113	DUAL J-K NEGATIVE-EDGE-TRIGGERED FLIP-FLOP W/PRESET
11353	DIP16:SO16NB	\352	DUAL 4-LINE TO 1-LINE DATA SELECTOR/MULTIPLEXER - Centre PWR
11373	DIP24-300:SO24WB	\573	OCTAL D LATCH - Centre pinned PWR
11374	DIP24-300:SO24WB	\574	OCTAL D FF - Centre pinned PWR
113A	DIP14:SO14NB	\113	DUAL J-K NEGATIVE-EDGE TRIGGERED FLIP-FLOP W/PRESET
114	DIP14:SO14NB	\114	DUAL J-K NEGATIVE-EDGE-TRIGGERED FLIP-FLOP W/PRESET
114-CC	PLCC20SQ:LCC20SQ	\114	DUAL J-K NEGATIVE-EDGE-TRIGGERED FLIP-FLOP
11520	DIP20:SO20WB	\521	8-BIT IDENTITY COMPARATOR + PullUps on I/O
11521	DIP20:SO20WB	\521	8-BIT IDENTITY COMPARATOR
11533	DIP24-300:SO24WB	\563	OCTAL Inv D latch - Centre pinned PWR
11534	DIP24-300:SO24WB	\564	OCTAL D FF Inv - Centre pinned PWR
11640	DIP24-300:SO24WB	\573	OCTAL BUS TRANSCEIVER Inv - Centre pinned PWR
11810	DIP16:SO16NB	XNOR	QUADRUPLE 2-INPUT EXCLUSIVE-NOR GATES
11812	DIP14:SO14NB	NAND3	TRIPLE 3-INPUT POS-NAN GATES W/ OPEN COLLECTOR OUTPUTS
11823	DIP16:SO16NB	\221	DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR W/RESET
11840	DIP20	\240	OCTAL BUFFER AND LINE DRIVER W/ 3 STATE OUTPUTS
11841	DIP20	\244:\244A	OCTAL BUFFER AND LINE DRIVER W/ 3 STATE OUTPUTS
11842	DIP14:SO14NB	\1242	QUAD BUS TRANSCEIVER W/ 3 STATE OUTPUTS

Table 12-1. TI Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
1243	DIP14:SO14NB	\1243	QUADRUPLE BUS TRANSCEIVER W/ 3 STATE OUTPUTS
1244	DIP20	\244	OCTAL BUFFER AND DRIVER W/ 3 STATE OUTPUTS
1244A	DIP20:PLCC20SQ: LCC20SQ	\244	OCTAL BUFFER AND DRIVER W/ 3 STATE OUTPUTS
1245	DIP20	\573	OCTAL BUS TRANSCEIVER W/ 3 STATE OUTPUTS
125	DIP14:SO14NB	\125:\125A	QUADRUPLE BUS BUFFER GATE
125-CC	PLCC20SQ:LCC20 SQ	\125:\125A	QUAD BUS BUFFER GATE
126	DIP14:SO14NB	\126:\126A	QUADRUPLE BUS BUFFER GATE
126-CC	PLCC20SQ:LCC20 SQ	\126:\126A	QUAD BUS BUFFER GATE
128	DIP14:SO14NB	NOR2:NORDM	50 OHM LINE DRIVER
13	DIP14:SO14NB	NAND4	QUAD 4-INPUT POS-NAND ST
131	DIP16	\131	3-LINE TO 8-LINE DECODER/DEMULTIPLEXER
132	DIP14:SO14NB	NANDST	QUADRUPLE 2-INPUT POSITIVE-NAND ST
133	DIP16:SO16NB	NAND13	13-INPUT POSITIVE-NAND GATE
133-CC	PLCC20SQ:LCC20 SQ	NAND13	13-INPUT POSITIVE-NAND GATE
134	DIP16:SO16NB	\134	12-INPUT POSITIVE-NAND GATE TS
135	DIP16:SO16NB	\135	QUAD EXCLUSIVE-OR/NOR GATE
136	DIP14:SO14NB	XOROC	QUAD EXCLUSIVE-OR GATE OC
137	DIP16:SO16NB	\137	3-TO-8 LINE DECODER/DEMUX W/ ADDRESS LATCH
137-CC	PLCC20SQ:LCC20 SQ	\137	3-TO-8 LINE DECODER/DEMUX W/ ADDRESS LATCH
138	DIP16:SO16NB	\138:\138S	3-TO-8 LINE DECODER/DEMUX
138-CC	PLCC20SQ:LCC20 SQ	\138	3-TO-8 LINE DECODER/MULTIPLEXER
139	DIP16:SO16NB	\139:\139S	DUAL 2-TO-4 LINE DECODER/DEMUX

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
139-CC	PLCC20SQ:LCC20 SQ	\139	DUAL 2-TO-4 LINE DECODER/DEMUX
14	DIP14:SO14NB	INVST	HEX SCHMITT-TRIGGER INV
14-CC	PLCC20SQ:LCC20 SQ	INVST	HEX SCHMITT-TRIGGER INV
140	DIP14:SO14NB	NAND4	DUAL 4-NAND 50 OHM DRIVER
145	DIP16	\145	BCD-TO-DECIMAL DECODER/DRIVER
147	DIP16:SO16NB	\147	10-LINE DECIMAL TO 4-LINE BCB PRIORITY ENCODER
148	DIP16:SO16NB	\148	8-LINE-TO-3-LINE OCTAL PRIORITY ENCODER
15	DIP14:SO14NB	AND3	TRIPLE 3-INPUT POS-AND GATE OC
150	DIP24-600	\150	16 TO 1 MULTIPLEXER W/ STROBE
151	DIP16:SO16NB	\151	1-OF-8 DATA SELECTOR/MULTIPLEXER
151-CC	PLCC20SQ:LCC20 SQ	\151	1-OF-8 DATA SELECTOR/MULTIPLEXER
151A	DIP16:SO16NB	\151	1-OF-8 DATA SELECTOR/MULTIPLEXER
152	DIP14	\152	8-LINE TO 1-LINE DATA SELECTOR\MULTIPLEXER
152A	DIP14	\152	8-LINE TO 1-LINE DATA SELECTOR\MULTIPLEXER
153	DIP16:SO16NB	\153	DUAL 1 OF 4 DATA SELECTOR/MULTIPLEXER
153-CC	PLCC20SQ:LCC20 SQ	\153	DUAL 1 OF 4 DATA SELECTOR/MULTIPLEXER
154	DIP24- 300:SO24WB:DIP2 4-600	\154	4-LINE TO 16-LINE DECODER/DEMULTIPLEXER
154-CC	PLCC28SQ:LCC28 SQ	\154	4-LINE TO 16-LINE DECODER/DEMULTIPLEXER
155	DIP16	\155	DUAL 2 TO 4 LINE DECODER/DEMUX
156	DIP16	\156	DUAL 2 TO 4 LINE DECODER/DEMUX W/ OC OUTPUTS
157	DIP16:SO16NB	\157	QUAD 2-TO-1-LINE DATA SELECTOR/MULTIPLEXER



Table 12-1. TI Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
157-CC	PLCC20SQ:LCC20 SQ	\157	QUAD 2-LINE TO 1-LINE DATA SELECTOR\MULTIPLEXER
158	DIP16:SO16NB	\158	QUAD 2-TO-1-LINE DATE SELECTOR/MULTIPLEXER
158-CC	PLCC20SQ:LCC20 SQ	\158	QUAD 2-TO-1-LINE DATA SELECTOR /MULTIPLEXER
16	DIP14:SO14NB	INVOC:INVDMOC	HEX INV BUF/DRIVER
160	DIP16:SO16NB	\160	SYNC 4 BIT DECADE COUNTER
160-CC	PLCC20SQ:LCC20 SQ	\160	SYNC 4 BIT DECADE COUNTER
160A	DIP16:SO16NB	\160	SYNC 4 BIT DECADE COUNTER
161	DIP16:SO16NB	\160	SYNC 4 BIT BINARY COUNTER
161-CC	PLCC20SQ:LCC20 SQ	\160	SYNC 4 BIT BINARY COUNTER
161A	DIP16:SO16NB	\160	SYNC 4 BIT BINARY COUNTER
162	DIP16:SO16NB	\160	SYNC 4 BIT DECADE COUNTER W/ SYNC CLEAR
162-CC	PLCC20SQ:LCC20 SQ	\160	SYNC 4 BIT DECADE COUNTER W/ SYNC CLEAR
1620	DIP20	\1620	OCTAL BUS TRANSCEIVER (INVERTING LOGIC) 3 STATE
1621	DIP20	\1620	OCTAL BUS TRANSCEIVER (TRUE LOGIC) OC
1622	DIP20	\1620	OCTAL BUS TRANSCEIVER (INVERTING LOGIC) OC
1623	DIP20	\1620	OCTAL BUS TRANSCEIVER (TRUE LOGIC) 3 STATE
162A	DIP16:SO16NB	\160	SYNC 4 BIT DECADE COUNTER W/ SYNC CLEAR
163	DIP16:SO16NB	\160	SYNC 4 BIT BINARY COUNTER W/ SYNC CLEAR
163-CC	PLCC20SQ:LCC20 SQ	\160	SYNC 4 BIT BINARY COUNTER W/ SYNC CLEAR
1638	DIP20	\1620	OCTAL BUS TRANSCEIVER (INVERTING LOGIC) 3 STATE, OC

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
1639	DIP20	\1620	OCTAL BUS TRANSCEIVER (TRUE LOGIC) 3 STATE, OC
163A	DIP16:SO16NB	\160	SYNC 4 BIT BINARY COUNTER W/ SYNC CLEAR
164	DIP14:SO14NB	\164	8-BIT PARALLEL OUTPUT SERIAL SHIFT REGISTER
164-CC	PLCC20SQ:LCC20 SQ	\164	8-BIT PARALLEL OUTPUT SERIAL SHIFT REGISTER
1640A	DIP20	\1620	OCTAL BUS TRANSCEIVER (INVERTING LOGIC) 3 STATE
1641	DIP20	\1620	OCTAL BUS TRANSCEIVER (TRUE LOGIC), O
1642	DIP20	\1620	OCTAL BUS TRANSCEIVER (INVERTING LOGIC), OC
1643	DIP20	\1620	OCTAL BUS TRANSCEIVER 3 STATE (TRUE AND INVERTING)
1644	DIP20	\1620	OCTAL BUS TRANSCEIVER OC (TRUE AND INVERTING)
1645	DIP20	\1620	OCTAL BUS TRANSCEIVER (TRUE LOGIC) 3 STATE
165	DIP16:SO16NB	\165	PARALLEL-LOAD 8-BIT SHIFT REGISTER
165-CC	PLCC20SQ:LCC20 SQ	\165	PARALLELL-LOAD 8-BIT SHIFT REGISTER
166	DIP16:SO16NB	\166	8-BIT SHIFT REGISTER
166-CC	PLCC20SQ:LCC20 SQ	\166	PARALLEL-LOAD 8-BIT SHIFT REGISTER
168	DIP16:SO16NB	\168	4-BIT UP/DOWN SYNCHRONOUS DECADE COUNTER
168A	DIP16:SO16NB	\168	4-BIT UP/DOWN SYNCHRONOUS DECADE COUNTER
169	DIP16:SO16NB	\168	4-BIT UP/DOWN SYNCHRONOUS BINARY COUNTER
17	DIP14:SO14NB	INVNONOC	HEX BUF/DRIVER
170	DIP16:SO16NB	\170	4-BY-4 REGISTER FILE W/ OC OUTPUTS
173	DIP16:SO16NB	\173	3 STATE QUAD D TYPE FLIP FLOP
174	DIP16:SO16NB	\174	Hex D Flip-Flop

**Table 12-1. TI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
174-CC	PLCC20SQ:LCC20 SQ	\174	Hex D Flip-Flop
175	DIP16:SO16NB	\175	Quad D Flip-Flop
175-CC	PLCC20SQ:LCC20 SQ	\175	Quad D Flip-Flop
180	DIP14:SO14NB	\180	9-BIT ODD\EVEN PARITY GENERATOR\CHECKER
180-CC	PLCC20SQ:LCC20 SQ	\180	9-BIT ODD\EVEN PARITY GENERATOR\CHECKER
181	DIP24- 300:SO24WB	\181	ARITHMETIC LOGIC UNIT/FUNCTION GENERATOR
181-CC	PLCC28SQ:LCC28 SQ	\181	ARITHMETIC LOGIC UNIT/FUNCTION GENERATOR
182	DIP16	\182	LOOK-AHEAD CARRY GENERATORS
189	DIP16	\189	64-BIT RANDOM-ACCESS MEMORY
190	DIP16:SO16NB	\190	SYNCHRONOUS UP/DOWN COUNTER 4 BIT
190-CC	PLCC20SQ:LCC20 SQ	\190	SYNCHRONOUS 4-BIT DECADE COUNTER
191	DIP16:SO16NB	\190	SYNCHRONOUS BINARY COUNTER 4 BIT
191-CC	PLCC20SQ:LCC20 SQ	\190	SYNCHRONOUS 4-BIT BINARY COUNTER
192	DIP16:SO16NB	\192	SYNC 4 BIT UP/DOWN DECADE COUNTER
192-CC	PLCC20SQ:LCC20 SQ	\192	SYNC 4 BIT UP/DOWN DECADE COUNTER
193	DIP16:SO16NB	\192	SYNC 4 BIT UP/DOWN BINARY COUNTER
193-CC	PLCC20SQ:LCC20 SQ	\192	SYNC 4 BIT UP/DOWN BINARY COUNTER
194	DIP16:SO16NB	\194	4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER
194-CC	PLCC20SQ:LCC20 SQ	\194	4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER
194A	DIP16:SO16NB	\194	4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER
195	DIP16:SO16NB	\195	4-BIT PARALLEL-ACCESS SHIFT REGISTER

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
195-CC	PLCC20SQ:LCC20 SQ	\195	4-BIT PARALLEL-ACCESS SHIFT REGISTER
195A	DIP16:SO16NB	\195	4-BIT PARALLEL-ACCESS SHIFT REGISTER
198	DIP24- 300:SO24WB	\198	8-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER
199	DIP24- 300:SO24WB	\199	8-BIT PARALLEL-ACCESS SHIFT REGISTER
20	DIP14:SO14NB	NAND4	DUAL 4-INPUT POS-NAND GATE
20-CC	PLCC20SQ:LCC20 SQ	NAND4	DUAL 4-INPUT POS-NAND GATE
200	DIP16	\200	256-BIT RANDOM-ACCESS MEMORY
21	DIP14:SO14NB	AND4	DUAL 4-INPUT POS-AND GATE
21-CC	PLCC20SQ:LCC20 SQ	AND4	DUAL 4-INPUT POSITIVE-AND GATE
219A	DIP16	\219	64-BIT RANDOM-ACCESS MEMORY
22	DIP14	NAND4	DUAL 4-INPUT POS-NAND GATE OC OUTPUT
221	DIP16:SO16NB	\221	DUAL MONOSTABLE MULTIVIBRATOR
222	DIP20	\222	16X4 SYNCHRONOUS FIRST-IN FIRST-OUT MEMORY
224	DIP16	\224	16X4 SYNCHRONOUS FIRST-IN FIRST-OUT MEMORY
225	DIP20	\225	ASYNCHRONOUS FIRST IN, FIRST OUT MEMORY
22A	DIP14:SO14NB	NAND4	DUAL 4-INPUT POS-NAND GATE W/ OC OUTPUTS
230	DIP20	\230	OCTAL BUFFER AND LINE DRIVER
231	DIP20	\231	OCTAL BUFFER AND LINE DRIVER
232A	DIP16:SO16NB:SO 16WB	\232A	16X4 ASYNCHRONOUS FIRST-IN FIRST-OUT MEMORY
232A-CC	PLCC20SQ:LCC20 SQ	\232A	16X4 ASYNCHRONOUS FIRST-IN FIRST-OUT MEMORY
233A	DIP20:SO20WB	\233A	16X5 ASYNCHRONOUS FIRST-IN FIRST-OUT MEMORY

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
233A-CC	PLCC20SQ:LCC20SQ	\233A	16X5 ASYNCHRONOUS FIRST-IN FIRST-OUT MEMORY
237	DIP16:SO16NB	\237	3-TO-8 LINE DECODER/DEMULTIPLEXER/LATCH
237-CC	PLCC20SQ:LCC20SQ	\237	3-TO-8 LINE DECODER/MULTIPLEXER
238	DIP16:SO16NB	\238	3-LINE TO 8-LINE DECODER\DEMULTIPLEXER
238-CC	PLCC20SQ:LCC20SQ	\238	3-TO-8 LINE DECODER/MULTIPLEXER
239	DIP16:SO16NB	\239:\239S	DUAL 2-TO-4 LINE DECODER/MULTIPLEXER
239-CC	PLCC20SQ:LCC20SQ	\239	DUAL 2-TO-4 LINE DECODER/MULTIPLEXER
240	DIP20:SO20WB	\240	OCTAL BUFFER/LINE DRIVER/LINE RECEIVER Inv
240-CC	PLCC20SQ:LCC20SQ	\240	OCTAL BUFFER AND LINE DRIVER WITH 3-STATE OUTPUT
240A	DIP20:SO20WB	\240	OCTAL BUFFER/LINE DRIVER/LINE RECEIVER Inv
241	DIP20:SO20WB	\244:\241	OCTAL BUFFER/LINE DRIVER/LINE RECEIVER
241-CC	PLCC20SQ:LCC20SQ	\244:\241	OCTAL BUFFER AND LINE DRIVER WITH 3-STATE OUTPUT
241A	DIP20:SO20WB	\244:\241	OCTAL BUFFER/LINE DRIVER/LINE RECEIVER
242	DIP14:SO14NB	\242	QUADRUPLE BUS TRANSCEIVER 3 STATE INVERTING
242-CC	PLCC20SQ:LCC20SQ	\242	QUAD BUS TRANSCEIVER 3 STATE INVERTING
242A	DIP14:SO14NB	\242	QUADRUPLE BUS TRANSCEIVER 3 STATE INVERTING
243	DIP14:SO14NB	\242	QUAD BUS TRANSCEIVER 3 STATE NON- INVERTING
243-CC	PLCC20SQ:LCC20SQ	\242	QUAD BUS TRANSCEIVER TS Non Inv
243A	DIP14:SO14NB	\242	QUAD BUS TRANSCEIVER 3 STATE NON- INVERTING

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
244	DIP20:SO20WB	\244	OCTAL BUFFER/LINE DRIVER 3 STATE OUTPUTS
244-CC	PLCC20SQ:LCC20SQ	\244	OCTAL BUFFER AND LINE DRIVER 3 STATE OUTPUTS
244A	DIP20:SO20WB	\244	OCTAL BUFFER/LINE DRIVER 3 STATE OUTPUTS
245	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER 3 STATE OUTPUTS
245-CC	PLCC20SQ:LCC20SQ	\573	OCTAL BUS TRANSCEIVER 3 STATE OUTPUTS
245A	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER 3 STATE OUTPUTS
247	DIP16	\247	BCD-TO-SEVEN-SEGMENT DECODER/DRIVER
248	DIP16	\248	BCD-TO-SEVEN-SEGMENT DECODER/DRIVER
249	DIP16	\248	BCD-TO-SEVEN-SEGMENT DECODER/DRIVER OC OUTPUTS
250	DIP24-600	\250	1-OF-16 DATA GENERATOR/MULTIPLEXER
250-CC	PLCC28SQ:LCC28SQ	\250	1-OF-16 DATA GENERATOR/MULTIPLEXER
251	DIP16:SO16NB	\151	1-OF-8 DATA SELECTOR/MULTIPLEXER
251-CC	PLCC20SQ:LCC20SQ	\151	1-OF-8 DATA SELECTOR/MULTIPLEXER
253	DIP16:SO16NB	\153	DUAL 4-LINE TO 1-LINE DATA SELECTOR/MULTIPLEXER
253-CC	PLCC20SQ:LCC20SQ	\153	DUAL 4-LINE TO 1-LINE DATA SELECTOR/MULTIPLEXER
257	DIP16:SO16NB	\157	QUAD 2-TO-1-LINE DATA- SELECTOR/MULTIPLEXER
257-CC	PLCC20SQ:LCC20SQ	\157	QUAD 2-LINE TO 1-LINE DATA SELECTOR\MULTIPLEXER
258	DIP16:SO16NB	\158	QUAD 2-TO-1-LINE DATA SELECTOR/MULTIPLEXER
258-CC	PLCC20SQ:LCC20SQ	\158	QUAD 2-LINE TO 1-LINE DATA SELECTOR\MULTIPLEXER
259	DIP16:SO16NB	\259	EIGHT-BIT ADDRESSABLE LATCH
259-CC	PLCC20SQ:LCC20SQ	\259	8-BIT ADDRESSABLE LATCH

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
26	DIP14:SO14NB	NAND2OC:NANDDMOC	QUAD 2-INPUT HIGH-VOL INTERFACE POS-NAND GATE
260	DIP14:SO14NB	NOR5	DUAL 5-INPUT POSITIVE NOR GATE
2620	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER/MOS DRIVER (INVERTING LOGIC)
2623	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER/MOS DRIVER (TRUE LOGIC)
264	DIP16:SO16NB	\264	LOOK-AHEAD CARRY GENERATOR FOR COUNTERS
2640	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER/MOS DRIVER (INVERTING LOGIC)
2645	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER/MOS DRIVER (TRUE LOGIC)
266	DIP14:SO14NB	XNOR	QUAD 2-INPUT EXCLUSIVE-NOR GATE
266-CC	PLCC20SQ:LCC20SQ	XNOR	QUAD 2-INPUT EXCLUSIVE-NOR GATE
27	DIP14:SO14NB	NOR3	TRIPLE 3-INPUT POS-NOR GATE
27-CC	PLCC20SQ:LCC20SQ	NOR3	TRIPLE 3-INPUT POSITIVE-NOR GATE
273	DIP20:SO20WB	\574	OCTAL D-TYPE FLIP-FLOP
273-CC	PLCC20SQ:LCC20SQ	\574	OCTAL D-TYPE FLIP-FLOP
28	DIP14:SO14NB	NOR2:NORDM	QUAD 2-INPUT POS-NOR BUFFER
280	DIP14:SO14NB	\280	9-BIT ODD/EVEN PARITY GENERATOR/CHECKER
280-CC	PLCC20SQ:LCC20SQ	\280	9-BIT ODD\ EVEN PARITY GENERATOR\CHECKER
282	DIP20	\282	LOOK-AHEAD CARRY GENERATOR
283	DIP16:SO16NB	\283	4-BIT BINARY ADDER W/ FAST CARRY
283-CC	PLCC20SQ:LCC20SQ	\283	4-BIT BINARY FULL ADDER
286	DIP14:SO14NB	\286	9-BIT PARITY GENERATOR/CHECKER
286-CC	PLCC20SQ:LCC20SQ	\286	9-BIT PARITY GENERATOR/CHECKER

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
28A	DIP14:SO14NB	NOR2:NORDM	QUAD 2-INPUT POS-NOR BUFFER
290	DIP14:SO14NB	\290	DECADE COUNTER
293	DIP14:SO14NB	\293	4-BIT BINARY COUNTER
298	DIP16:SO16NB	\298	QUAD 2-IN MULTIPLEXER WITH STORAGE
298-CC	PLCC20SQ:LCC20 SQ	\298	QUAD 2-IN MULTIPLEXER WITH STORAGE
299	DIP20:SO20WB	\299	8-BIT BIDIRECTIONAL UNIVERSAL SHIFT/STORAGE REGISTER
299-CC	PLCC20SQ:LCC20 SQ	\299	8-BIT BIDIRECTIONAL UNIVERSAL SHIFT/STORAGE REGISTER
30	DIP14:SO14NB	NAND8	8-INPUT POS-NAND GATE
30-CC	PLCC20SQ:LCC20 SQ	NAND8	8-INPUT POSITIVE-NAND GATE
301	DIP16	\301	256-BIT RANDOM ACCESS MEMORY
32	DIP14:SO14NB	OR2	QUAD 2-INPUT POS-OR GATE
32-CC	PLCC20SQ:LCC20 SQ	OR2	QUAD 2-INPUT POSITIVE-OR GATE
322	DIP20:SO20WB	\322	8-BIT SHIFT REGISTER
322-CC	PLCC20SQ:LCC20 SQ	\322	8-BIT SHIFT REGISTER
323	DIP20:SO20WB	\299	8-BIT BIDIRECTIONAL UNIVERSAL SHIFT/STORAGE REGISTER
323-CC	PLCC20SQ:LCC20 SQ	\299	8-BIT BIDIRECTIONAL UNIVERSAL SHIFT/STORAGE REGISTER
324	DIP14:SO14NB	AOPAMPM	LOW POWER QUAD OP AMP
33	DIP14:SO14NB	NOR2OC:NORDMOC	QUAD 2-INPUT POS-NOR BUFFER OC
33A	DIP14:SO14NB	NOR2OC:NORDMOC	QUAD 2-INPUT POS-NOR BUFFER OC
34	DIP14:SO14NB	INVNON:INVNONL	HEX NONINVERTER
35	DIP14:SO14NB	INVNON:INVNONL	HEX NONINVERTER W/ OC
352	DIP16:SO16NB	\352	DUAL 4-LINE TO 1-LINE DATA SELECTOR/MULTIPLEXER
352-CC	PLCC20SQ:LCC20 SQ	\352	DUAL 4-LINE TO 1-LINE DATA SELECTOR/MULTIPLEXER



Table 12-1. TI Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
353	DIP16:SO16NB	\352	DUAL 4-LINE TO 1-LINE DATA SELECTOR/MULTIPLEXER
353-CC	PLCC20SQ:LCC20 SQ	\352	DUAL 4-LINE TO 1-LINE DATA SELECTOR/MULTIPLEXER
354	DIP20:SO20WB	\354	8-LINE TO 1-LINE DATA SELECTOR\MULTIPLEXER
354-CC	PLCC20SQ:LCC20 SQ	\354	8-LINE TO 1-LINE DATA SELECTOR\MULTIPLEXER
356	DIP20:SO20WB	\356	8-LINE TO 1-LINE DATA SELECTOR\MULTIPLEXER
356-CC	PLCC20SQ:LCC20 SQ	\356	8-LINE TO 1-LINE DATA SELECTOR\MULTIPLEXER
363	DIP20:SO20WB	\573	OCTAL D-TYPE LATCH HI VOH
364	DIP20:SO20WB	\574	OCTAL D-TYPE FLIP-FLOP
365	DIP16:SO16NB	\365	HEX BUFFER/LINE DRIVER
365-CC	PLCC20SQ:LCC20 SQ	\365	HEX BUFFER/LINE DRIVER
366	DIP16:SO16NB	\366	HEX INVERTER BUFFER/LINE DRIVER
366-CC	PLCC20SQ:LCC20 SQ	\366	HEX INVERTER BUFFER/LINE DRIVER
367	DIP16:SO16NB	\367A:\367B	HEX BUFFER/LINE DRIVER
367-CC	PLCC20SQ:LCC20 SQ	\367A:\367B	HEX BUFFER/LINE DRIVER
368	DIP16:SO16NB	\368A:\368B	HEX INVERTER BUFFER/LINE DRIVER
368-CC	PLCC20SQ:LCC20 SQ	\368A:\368B	HEX INVERTER BUFFER/LINE DRIVER
37	DIP14:SO14NB	NAND2:NANDDM	QUAD 2-INPUT POS-NAND BUFFER
373	DIP20:SO20WB	\573	OCTAL D-TYPE LATCH
373-CC	PLCC20SQ:LCC20 SQ	\573	OCTAL D-TYPE TRANSPARENT LATCH
374	DIP20:SO20WB	\574	OCTAL D-TYPE FLIP-FLOP
374-CC	PLCC20SQ:LCC20 SQ	\574	OCTAL D-TYPE EDGE TRIGGERED FLIP-FLOP
375	DIP16:SO16NB	\75	4-BIT BISTABLE LATCHES

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
377	DIP20:SO20WB	\574	OCTAL D-TYPE FLIP-FLOP
377-CC	PLCC20SQ:LCC20 SQ	\574	OCTAL D-TYPE FLIP-FLOP
378	DIP16:SO16NB	\174	HEX D-TYPE FLIP-FLOP
379	DIP16:SO16NB	\175	QUAD D-TYPE FLIP-FLOP
37A	DIP14:SO14NB	NAND2:NANDDM	QUAD 2-INPUT POS-NAND BUFFER
38	DIP14:SO14NB	NAND2OC:NANDDMOC	QUAD 2-INPUT POS-NAND BUFFER OC
381	DIP20	\381	ARITHMETIC LOGIC UNIT/FUNCTION GENERATOR
386	DIP14:SO14NB	XOR	QUAD 2-INPUT EXCLUSIVE-OR GATE
386-CC	PLCC20SQ:LCC20 SQ	XOR	QUAD 2-INPUT EXCLUSIEV-OR GATE
38A	DIP14:SO14NB	NAND2OC:NANDDMOC	QUAD 2-INPUT POS-NAND BUFFER OC
39	DIP14:SO14NB	NAND2OC:NANDDMOC	QUAD 2-INPUT POS-NAND BUFFER OC
390	DIP16:SO16NB	\390	DUAL 4-BIT DECADE COUNTER
390-CC	PLCC20SQ:LCC20 SQ	\390	DUAL 4-BIT DECADE COUNTER
393	DIP14:SO14NB	\393	DUAL 4-BIT BINARY COUNTER
393-CC	PLCC20SQ:LCC20 SQ	\390	DUAL 4-BIT BINARY COUNTER
395	DIP16:SO16NB	\395	4-BIT CASCADE SHIFT REGISTER
395-CC	PLCC20SQ:LCC20 SQ	\395	4-BIT CASCADE SHIFT REGISTER
395A	DIP16:SO16NB	\395	4-BIT CASCADE SHIFT REGISTER
40	DIP14:SO14NB	NAND4	DUAL 4-INPUT POS-NAND BUFFER
4002	DIP14:SO14NB	NOR4A	Dual 4-input NOR Gate
4015	DIP16:SO16NB	4015	Dual 4-Bit Shift Reg
4016	DIP14:SO14NB	4066:4066V	Quad Bi-lateral Switch
4040	DIP16:SO16NB	\4040	12 STAGE RIPPLE CARRY BINARY COUNTER
4046	DIP16:SO16NB	\4046	Phase Lock Loop
4049	DIP16:SO16NB	INV:INVL:INVDM:INVDML	HEX INVERTING BUFFER
4051	DIP16:SO16NB	4051	8 CHANNEL ANALOG MUX/DEMUX

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
4052	DIP16:SO16NB	4052	4 CHANNEL ANALOG MUX/DEMUX
4053	DIP16:SO16NB	\4053	2 CHANNEL ANALOG MUX/DEMUX
4060	DIP16:SO16NB	\4060	14 STAGE RIPPLE CARRY BINARY COUNTER
4061	DIP16:SO16NB	4060	14 Stage Rip Ctr/Oscill Xtal 4060 version
4066	DIP14:SO14NB	4066:4066V	QUAD BILATERAL SWITCH
4075	DIP14:SO14NB	OR3	TRIPLE 3 INPUT OR GATE
4094	DIP16:SO16NB	4094	8 BIT SHIFT REGISTER/LATCH
40A	DIP14:SO14NB	NAND4	DUAL 4-INPUT POS-NAND BUFFER
412	DIP24- 300:SO24WB	\412	MULTI-MODE BUFFERED 8-BIT LATCH
42	DIP16:SO16NB	\42	BCD TO DECIMAL DECODER
42A	DIP16:SO16NB	\42	BCD TO DECIMAL DECODER
4316	DIP16:SO16NB	\4316	QUAD ANALOG SWITCH W/ LEVEL TRANSLATOR
432	DIP24- 300:SO24WB	\432	MULTI-MODE BUFFERED 8-BIT LATCH (INVERTING)
4351	DIP20:SO20WB	4351	8 CHANNEL ANALOG MUX/DEMUX W/ LATCH
4352	DIP20:SO20WB	4352	DUAL 4 CHANNEL ANALOG MUX/DEMUX W/ LATCH
4353	DIP20:SO20WB	4353	TRIPLE 2 CHANNEL ANALOG MUX/DEMUX W/ LATCH
4511	DIP16:SO16NB	4511	BCD TO 7 SEGMENT LATCH/ DECODER/ DRIVER
4518	DIP16:SO16NB	\4518	DUAL SYNCH BCD COUNTER
4520	DIP16:SO16NB	\4518	DUAL 4 BIT SYNC BINARY COUNTER
4538	DIP16:SO16NB	\4538	DUAL MONOSTABLE MULTIVIBRATOR
465A	DIP20:SO20WB	\541	OCTAL BUFFER
466A	DIP20:SO20WB	\540	OCTAL BUFFER (INVERTING)
467A	DIP20:SO20WB	\244	OCTAL BUFFER (NON-INVERTING)
468A	DIP20:SO20WB	\240	OCTAL BUFFER (INVERTING)
47	DIP16	\47	BCD-SEVEN-SEGMENT DECODER/DRIVER
470	DIP20	\470	PROGRAMMABLE READ-ONLY MEMORY (O

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
471	DIP20	\470	PROGRAMMABLE READ-ONLY MEMORY (3 STATE)
472	DIP20	\472	PROGRAMMABLE READ-ONLY MEMORY (O
4724	DIP16:SO16NB	4724	8 Bit Addressable latch
474	DIP24-600	\474	PROGRAMMABLE READ-ONLY MEMORY (3 STATE)
475	DIP24-600	\475	PROGRAMMABLE READ-ONLY MEMORY (O
47A	DIP16	\47	BCD-SEVEN-SEGMENT DECODER/DRIVER
48	DIP16	\48	BCD-TO-SEVEN-SEGMENT DECODER/DRIVE
49	DIP14	\49	BCD-TO-SEVEN-SEGMENT DECODER/DRIVE
490	DIP16:SO16NB	\490	DUAL 4-BIT DECADE COUNTER
490-CC	PLCC20SQ:LCC20 SQ	\390	DUAL 4-BIT DECADE COUNTER
51	DIP14:SO14NB	\51A:\51B	DUAL 2-WIDE 2-INPUT, 2-WIDE 3-INPUT AND OR-INVERT
51-CC	PLCC20SQ:LCC20 SQ	\51A:\51B	AND-OR-INVERT GATE
518	DIP20	\518	8-BIT IDENTITY COMPARATOR
519	DIP20	\518	8-BIT IDENTITY COMPARATOR
520	DIP20	\520	8-BIT IDENTITY COMPARATOR
521	DIP20	\520	8-BIT IDENTITY COMPARATOR
522	DIP20	\520	8-BIT IDENTITY COMPARATOR
526	DIP20	\526	FUSE-PROGRAMMABLE IDENTITY COMPARATOR
527	DIP20	\527	FUSE-PROGRAMMABLE IDENTITY COMPARATOR
528	DIP16	\528	FUSE-PROGRAMMABLE IDENTITY COMPARATOR
533	DIP20:SO20WB	\563	OCTAL D-TYPE TRANSPARENT LATCH
533-CC	PLCC20SQ:LCC20 SQ	\563	OCTAL D-TYPE TRANSPARENT LATCH
534	DIP20:SO20WB	\564	OCTAL D-TYPE EDGE TRIGGERED FLIP-FLO

Table 12-1. TI Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
534-CC	PLCC20SQ:LCC20 SQ	\564	OCTAL D-TYPE EDGE TRIGGERED FLIP-FLOP
538	DIP20:SO20WB	\538	3-LINE TO 8-LINE DECODER/DEMULTIPLEXER
539	DIP20:SO20WB	\539	DUAL 2-LINE TO 4-LINE DECODER/DEMULTIPLEXER
540	DIP20:SO20WB	\540	OCTAL BUFFERS AND LINE DRIVERS
540-CC	PLCC20SQ:LCC20 SQ	\540	OCTAL BUFFERS AND LINE DRIVERS
541	DIP20:SO20WB	\541	OCTAL BUFFERS AND LINE DRIVERS
541-CC	PLCC20SQ:LCC20 SQ	\541	OCTAL BUFFERS AND LINE DRIVERS
560A	DIP20	\560A	SYNCHRONOUS 4-BIT COUNTER
561A	DIP20	\560A	SYNCHRONOUS 4-BIT COUNTER
563	DIP20:SO20WB	\563	OCTAL D-TYPE TRANSPARENT LATCH
563-CC	PLCC20SQ:LCC20 SQ	\563	OCTAL D-TYPE TRANSPARENT LATCH
564	DIP20:SO20WB	\564	OCTAL D-TYPE EDGE TRIGGERED FILP-FLOP
564-CC	PLCC20SQ:LCC20 SQ	\564	OCTAL D-TYPE EDGE TRIGGERED FILP-FLOP
568	DIP20:SO20WB	\568	SYNCHRONOUS 4-BIT UP/DOWN DECADE AND BINARY COUNTER
568A	DIP20:SO20WB	\568	SYNCHRONOUS 4-BIT UP/DOWN DECADE AND BINARY COUNTER
569	DIP20:SO20WB	\568	SYNCHRONOUS 4-BIT UP/DOWN DECADE AND BINARY COUNTER
569A	DIP20:SO20WB	\568	SYNCHRONOUS 4-BIT UP/DOWN DECADE AND BINARY COUNTER
573	DIP20:SO20WB	\573	OCTAL D-TYPE TRANSPARENT LATCH
573-CC	PLCC20SQ:LCC20 SQ	\573	OCTAL D-TYPE TRANSPARENT LATCH
574	DIP20:SO20WB	\574	OCTAL D-TYPE EDGE TRIGGERED FLIP-FLOP
574-CC	PLCC20SQ:LCC20 SQ	\574	OCTAL D-TYPE EDGE TRIGGERED FLIP-FLOP
575	DIP24-300	\575	OCTAL D-TYPE EDGE-TRIGGERED FLIP-FLOP

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
576	DIP20	\576	OCTAL D-TYPE EDGE-TRIGGERED FLIP-FLO
577	DIP24-300	\577	OCTAL D-TYPE EDGE-TRIGGERED FLIP-FLO
580	DIP20	\580	OCTAL D-TYPE TRANSPARENT LATCH
589	DIP16	\589	8-BIT SHIFT REGISTER W/ INPUT LATCHES
590	DIP16:SO16NB	\590	8-BIT BINARY COUNTER
590-CC	PLCC20SQ:LCC20 SQ	\590	8-BIT BINARY COUNTER
594	DIP16:SO16NB	\594	8-BIT Shift Regs w Output Latches
594-CC	PLCC20SQ:LCC20 SQ	\590	8-BIT Shift Regs w Output Latches
595	DIP16:SO16NB	\594	8-BIT SHIFT REGISTERS W/ OUTPUT LATCH
595-CC	PLCC20SQ:LCC20 SQ	\590	8-BIT Shift Regs w Output Latches
604	DIP28-600	\604	OCTAL 2-INPUT MULTIPLEXED LATCH
604-CC	PLCC28SQ:LCC28 SQ	\604	OCTAL 2-INPUT MULTIPLEXED LATCH
610	DIP40-600	\610	MEMORY MAPPER
610-CC	PLCC44	\610	MEMORY MAPPER
611	DIP40-600	\610	MEMORY MAPPER (OC)
611-CC	PLCC44	\610	MEMORY MAPPER (OC)
612	DIP40-600	\610	MEMORY MAPPER
612-CC	PLCC44	\610	MEMORY MAPPER
613	DIP40-600	\610	MEMORY MAPPER (OC)
613-CC	PLCC44	\610	MEMORY MAPPER (OC)
616	DIP40-600	\616	16-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT
616-CC	PLCC44:LCC44SQ	\616	16-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT
617	DIP40-600	\616	16-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT
617-CC	PLCC44:LCC44SQ	\616	16-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
620	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER 3 STATE INVERTING
620-CC	PLCC20SQ:LCC20 SQ	\573	OCTAL BUS TRANSCEIVER 3 STATE INVERTING
620A	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER 3 STATE INVERTING
621	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER OC
621A	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER OC
622	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER OC INVERTING
622A	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER OC INVERTING
623	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER 3 STATE
623-CC	PLCC20SQ:LCC20 SQ	\573	OCTAL BUS TRANSCEIVER 3 STATE
623A	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER 3 STATE
6301	DIP52-600	\6301	DYNAMIC MEMORY CONTROLLER
6302	DIP52-600	\6302	DYNAMIC MEMORY CONTROLLER
632	DIP52-600	\632	32-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT
632-CC	PLCC68	\632	32-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT
632A	DIP52-600	\632	32-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT
632A-CC	PLCC68	\632	32-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT
633	DIP52-600	\632	32-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT
633-CC	PLCC68	\632	32-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT
634	DIP48-600	\634	32-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT
634-CC	PLCC68	\634	32-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT
635	DIP48-600	\634	32-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
635-CC	PLCC68	\634	32-BIT PARALLEL ERROR DETECTION AND CORRECTION CIRCUIT
638	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER A:OC INV B:TS IN
638A	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER A:OC INV B:TS IN
639	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER A:OC B:TS
639A	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER A:OC B:TS
64	DIP14	\64	4-2-3-2 INPUT AND-OR-INV GATE
640	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER INV TS
640-CC	PLCC20SQ:LCC20 SQ	\573	OCTAL BUS TRANSCEIVER INV TS
640A	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER INV TS
641	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER OC
641A	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER OC
642	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER INV OC
642A	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER INV OC
643	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER INV-NONINV
643-CC	PLCC20SQ:LCC20 SQ	\573	OCTAL BUS TRANSCEIVER INV NONINV
643A	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER INV-NONINV
644	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER INV-NONINV OC
644A	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER INV-NONINV OC
645	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER TS
645-CC	PLCC20SQ:LCC20 SQ	\573	OCTAL BUS TRANSCEIVER TS
645A	DIP20:SO20WB	\573	OCTAL BUS TRANSCEIVER TS
646	DIP24- 300:SO24WB	\646	OCTAL BUS TRANSCEIVER AND REGISTER
646-CC	PLCC28SQ:LCC28 SQ	\646	OCTAL BUS TRANSCEIVER AND REGISTER
647	DIP24- 300:SO24WB	\646	OCTAL BUS TRANSCEIVER AND REGISTER C



Table 12-1. TI Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
647-CC	PLCC28SQ:LCC28 SQ	\646	OCTAL BUS TRANSCEIVER AND REGISTER C
648	DIP24- 300:SO24WB	\646	OCTAL BUS TRANSCEIVER AND REGISTER INV
648-CC	PLCC28SQ:LCC28 SQ	\646	OCTAL BUS TRANSCEIVER AND REGISTER
649	DIP24- 300:SO24WB	\646	OCTAL BUS TRANSCEIVER AND REGISTER C INV
649-CC	PLCC28SQ:LCC28 SQ	\646	OCTAL BUS TRANSCEIVER AND REGISTER
651	DIP24- 300:SO24WB	\646	OCTAL BUS TRANSCEIVER AND REGISTER INV
651-CC	PLCC28SQ:LCC28 SQ	\646	OCTAL BUS TRANSCEIVER AND REGISTER INV
652	DIP24- 300:SO24WB	\646	OCTAL BUS TRANSCEIVER AND REGISTER
652-CC	PLCC28SQ:LCC28 SQ	\646	OCTAL BUS TRANSCEIVER AND REGISTER
653	DIP24- 300:SO24WB	\646	OCTAL BUS TRANSCEIVER/REGISTER INV
653-CC	PLCC28SQ:LCC28 SQ	\646	OCTAL BUS TRANSCEIVER/REGISTER INV
654	DIP24- 300:SO24WB	\646	OCTAL BUS TRANSCEIVER/REGISTER
654-CC	PLCC28SQ:LCC28 SQ	\646	OCTAL BUS TRANSCEIVER/REGISTER
658	DIP24- 300:SO24WB	\658	OCTAL BUS TRANSCEIVER W Parity
658-CC	PLCC28SQ:LCC28 SQ	\658	OCTAL BUS TRANSCEIVER
659	DIP24- 300:SO24WB	\658	OCTAL BUS TRANSCEIVER W Parity
659-CC	PLCC28SQ:LCC28 SQ	\658	OCTAL BUS TRANSCEIVER
664	DIP24- 300:SO24WB	\658	OCTAL BUS TRANSCEIVER W Parity

**Table 12-1. TI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
664-CC	PLCC28SQ:LCC28 SQ	\658	OCTAL BUS TRANSCEIVER
665	DIP24- 300:SO24WB	\658	OCTAL BUS TRANSCEIVER W Parity
665-CC	PLCC28SQ:LCC28 SQ	\658	OCTAL BUS TRANSCEIVER
666	DIP24- 300:SO24WB	\666	8-BIT D-TYPE TRANSPARENT READ-BACK LATCHES
666-CC	PLCC28SQ:LCC28 SQ	\666	8-BIT D-TYPE TRANSPARENT READ-BACK LATCHES
667	DIP24- 300:SO24WB	\667	8-BIT D-TYPE TRANSPARENT READ-BACK LATCHES INV OUT
667-CC	PLCC28SQ:LCC28 SQ	\667	8-BIT D-TYPE TRANSPARENT READ-BACK LATCHES INV OUT
670	DIP16	\670	4-BY-4 REGISTER FILE
673	DIP24- 300:SO24WB	\673	16-BIT SHIFT REGISTER
674	DIP24- 300:SO24WB	\674	16-BIT SHIFT REGISTER
675	DIP24- 300:SO24WB	\675	16-BIT SHIFT REGISTER
676	DIP24- 300:SO24WB	\674	16-BIT SHIFT REGISTER
677	DIP24- 300:SO24WB	\677	16-BIT ADDRESS COMPARATORS
677-CC	PLCC28SQ:LCC28 SQ	\677	16-BIT ADDRESS COMPARATORS
678	DIP24- 300:SO24WB	\678	16-BIT ADDRESS COMPARATOR Latch
678-CC	PLCC28SQ:LCC28 SQ	\678	16-BIT ADDRESS COMPARATOR Latch
679	DIP20:SO20WB	\679	12-BIT ADDRESS COMPARATORS
679-CC	PLCC20SQ:LCC20 SQ	\679	12-BIT ADDRESS COMPARATORS
680	DIP20:SO20WB	\680	12-BIT ADDRESS COMPARATORS LATCH

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
680-CC	PLCC20SQ:LCC20SQ	\679	12-BIT ADDRESS COMPARATOR LATCH
682	DIP20:SO20WB	\682	8-BIT MAGNITUDE COMPARATOR
682-CC	PLCC20SQ:LCC20SQ	\682	8-BIT MAGNITUDE COMPARATOR
684	DIP20:SO20WB	\682	8-BIT MAGNITUDE COMPARATOR
684-CC	PLCC20SQ:LCC20SQ	\682	8-BIT MAGNITUDE COMPARATOR
686	DIP24-300:SO24WB	\686	8-BIT MAGNITUDE COMPARATOR
686-CC	PLCC28SQ:LCC28SQ	\686	8-BIT MAGNITUDE COMPARATOR
688	DIP20:SO20WB	\521	8-BIT IDENTITY COMPARATORS
688-CC	PLCC20SQ:LCC20SQ	\521	8-BIT IDENTITY COMPARATORS
689	DIP20:SO20WB	\521	8-BIT IDENTITY COMPARATOR
690	DIP20:SO20WB	\690	SYNCHRONOUS COUNTER
690-CC	PLCC20SQ:LCC20SQ	\690	SYNCHRONOUS COUNTER
691	DIP20:SO20WB	\690	SYNCHRONOUS COUNTER
691-CC	PLCC20SQ:LCC20SQ	\690	SYNCHRONOUS COUNTER
692	DIP20:SO20WB	\690	SYNCHRONOUS COUNTER
693	DIP20:SO20WB	\690	SYNCHRONOUS COUNTER
693-CC	PLCC20SQ:LCC20SQ	\690	SYNCHRONOUS COUNTER
696	DIP20:SO20WB	\696	SYNCHRONOUS UP/DOWN COUNTER
696-CC	PLCC20SQ:LCC20SQ	\696	SYNCHRONOUS UP/DOWN COUNTER
697	DIP20:SO20WB	\696	SYNCHRONOUS UP/DOWN COUNTER
697-CC	PLCC20SQ:LCC20SQ	\696	SYNCHRONOUS UP/DOWN COUNTER
698	DIP20:SO20WB	\696	SYNCHRONOUS UP/DOWN COUNTER

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
698-CC	PLCC20SQ:LCC20 SQ	\696	SYNCHRONOUS UP/DOWN COUNTER
699	DIP20:SO20WB	\696	SYNCHRONOUS UP/DOWN COUNTER
699-CC	PLCC20SQ:LCC20 SQ	\696	SYNCHRONOUS UP/DOWN COUNTER
70	DIP14	\70	AND GATED JK POS EDGE TRIG FLIP FLOP
7022	DIP16:SO16NB	\7022	OCTAL COUNTER/DIVIDER
7046	DIP16:SO16NB	4046	Phase Lock Loop W LD
7074	DIP24-300	\7074	6-SECTION MULTIFUNCTION (NAND, INVER NOR, FLIP-FLOP)
7074-CC	PLCC28SQ:LCC28 SQ	\7074	6-SECTION MULTIFUNCTION (NAND, INVER NOR, FLIP-FLOP)
72	DIP14	\72	AND-GATED JK MASTER SLAVE FLIP FLOP
7266	DIP14:SO14NB	XNOR	QUAD 2-INPUT EXCLUSIVE-NOR GATE
7266-CC	PLCC20SQ:LCC20 SQ	XNOR	QUAD 2-INPUT EXCLUSIVE-NOR GATE
73	DIP14:SO14NB	\73	DUAL J-K FLIP-FLOP
74	DIP14:SO14NB	\74	DUAL D-TYPE POSITIVE-EDGE TRIGGERED FLIP FLOP
74-CC	PLCC20SQ:LCC20 SQ	\74	DUAL D-TYPE POSITIVE-EDGE-TRIGGERED FLIP-FLOP
75	DIP16:SO16NB	\75	4-BIT BISTABLE LATCHES
756	DIP20	\756	OCTAL BUFFER AND LINE DRIVER
758	DIP14	\758	QUADRUPLE BUS TRANSCEIVER
759	DIP14	\758	QUADRUPLE BUS TRANSCEIVER
76	DIP16:SO16NB	\76	DUAL J-K FLIP-FLOP
760	DIP20:SO20WB	\244	OCTAL BUFFER/LINE DRIVER 3 STATE OUTPUTS (OC)
762	DIP20	\762:\762A	OCTAL BUFFER AND LINE DRIVER
763	DIP20	\763:\763A	OCTAL BUFFER AND LINE DRIVER
77	DIP14	\77	4-BIT BISTABLE LATCH
78	DIP14:SO14NB	\78	DUAL J-K FLIP-FLOP

**Table 12-1. TI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
800	DIP20	NAND4	TRIPLE 4-INPUT AND/NAND DRIVER
8003	DIP8	NAND2:NANDDM	DUAL 2-INPUT POSITIVE-NAND GATE
802	DIP20	NOR4	TRIPLE 4-INPUT OR/NOR DRIVER
804	DIP20	NAND2:NANDDM	HEX 2-INPUT NAND DRIVER
804-CC	PLCC20SQ:LCC20 SQ	NAND2:NANDDM	HEX 2-INPUT NAND DRIVER
804A	DIP20	NAND2:NANDDM	HEX 2-INPUT NAND DRIVER
805	DIP20	NOR2:NORDM	HEX 2-INPUT NOR DRIVER
805-CC	PLCC20SQ:LCC20 SQ	NOR2:NORDM	HEX 2-INPUT NOR DRIVER
805A	DIP20	NOR2:NORDM	HEX 2-INPUT NOR DRIVER
808	DIP20	AND2	HEX 2-INPUT AND DRIVER
808-CC	PLCC20SQ:LCC20 SQ	AND2	HEX 2-INPUT AND DRIVER
808A	DIP20	AND2	HEX 2-INPUT AND DRIVER
821	DIP24- 300:SO24WB	\821	10-BIT BUS INTERFACE FLIP-FLOP
821-CC	PLCC28SQ:LCC28 SQ	\821	10-BIT BUS INTERFACE FLIP-FLOP
822	DIP24- 300:SO24WB	\822	10-BIT BUS INTERFACE FLIP-FLOP
822-CC	PLCC28SQ:LCC28 SQ	\822	10-BIT BUS INTERFACE FLIP-FLOP
823	DIP24- 300:SO24WB	\823	9-BIT BUS INTERFACE FLIP-FLOP
823-CC	PLCC28SQ:LCC28 SQ	\823	9-BIT BUS INTERFACE FLIP-FLOP
824	DIP24- 300:SO24WB	\824	9-BIT BUS INTERFACE FLIP-FLOP
824-CC	PLCC28SQ:LCC28 SQ	\824	9-BIT BUS INTERFACE FLIP-FLOP
825	DIP24- 300:SO24WB	\825	8-BIT BUS INTERFACE FLIP-FLOP

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
825-CC	PLCC28SQ:LCC28 SQ	\825	8-BIT BUS INTERFACE FLIP-FLOP
826	DIP24- 300:SO24WB	\826	8-BIT BUS INTERFACE FLIP-FLOP
826-CC	PLCC28SQ:LCC28 SQ	\826	8-BIT BUS INTERFACE FLIP-FLOP
832	DIP20	OR2	HEX 2-INPUT OR DRIVER
832-CC	PLCC20SQ:LCC20 SQ	OR2	HEX 2-INPUT OR DRIVER
832A	DIP20	OR2	HEX 2-INPUT OR DRIVER
83A	DIP16:SO16NB	\83A	4-BIT BINARY FULL ADDERS
841	DIP24- 300:SO24WB	\841	10-BIT BUS INTERFACE D-TYPE LATCH
841-CC	PLCC28SQ:LCC28 SQ	\841	10-BIT BUS INTERFACE D-TYPE LATCH
842	DIP24- 300:SO24WB	\842	10-BIT BUS INTERFACE D-TYPE LATCH
842-CC	PLCC28SQ:LCC28 SQ	\842	10-BIT BUS INTERFACE D-TYPE LATCH
843	DIP24- 300:SO24WB	\843	9-BIT BUS INTERFACE D-TYPE LATCH
844	DIP24- 300:SO24WB	\843	9-BIT BUS INTERFACE D-TYPE LATCH
845	DIP24- 300:SO24WB	\845	8-BIT BUS INTERFACE D-TYPE LATCH
845-CC	PLCC28SQ:LCC28 SQ	\845	8-BIT BUS INTERFACE D-TYPE LATCH
846	DIP24- 300:SO24WB	\846	8-BIT BUS INTERFACE D-TYPE LATCH
846-CC	PLCC28SQ:LCC28 SQ	\846	8-BIT BUS INTERFACE D-TYPE LATCH
85	DIP16:SO16NB	\85	4-BIT MAGNITUDE COMPARATOR
85-CC	PLCC20SQ:LCC20 SQ	\85	4-BIT MAGNITUDE COMPARATOR
850	DIP28-600	\850	1 OF 16 DATA SELECTOR/MULTIPLEXER

**Table 12-1. TI Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
850-CC	PLCC28SQ:LCC28 SQ	\850	1 OF 16 DATA SELECTOR/MULTIPLEXER
851	DIP28-600	\851	1 OF 16 DATA SELECTOR/MULTIPLEXER
851-CC	PLCC28SQ:LCC28 SQ	\851	1 OF 16 DATA SELECTOR/MULTIPLEXER
852	DIP24-300	\852	8-BIT UNIVERSAL TRANSCEIVER PORT CONTROLLER
852-CC	PLCC28SQ:LCC28 SQ	\852	8-BIT UNIVERSAL TRANSCEIVER PORT CONTROLLER
856	DIP24-300	\856	8-BIT UNIVERSAL TRANSCEIVER PORT CONTROLLER
856-CC	PLCC28SQ:LCC28 SQ	\856	8-BIT UNIVERSAL TRANSCEIVER PORT CONTROLLER
857	DIP24-300	\857	HEX 2-TO-1 UNIVERSAL MULTIPLEXER
86	DIP14:SO14NB	XOR	QUADRUPLE 2-INPUT EXCLUSIVE-OR GATE
86-CC	PLCC20SQ:LCC20 SQ	XOR	QUAD 2-INPUT EXCLUSIVE-OR GATE
866	DIP28-600	\866	8-BIT MAGNITUDE COMPARATOR
867	DIP24-300	\867	SYNCHRONOUS 8-BIT UP/DOWN COUNTER
867-CC	PLCC28SQ:LCC28 SQ	\867	SYNCHRONOUS 8-BIT UP/DOWN COUNTER
869	DIP24-300	\867	SYNCHRONOUS 8-BIT UP/DOWN COUNTER
869-CC	PLCC28SQ:LCC28 SQ	\867	SYNCHRONOUS 8-BIT UP/DOWN COUNTER
870	DIP24-300	\870	DUAL 16-BY-4 REGISTER FILE
870-CC	PLCC28SQ:LCC28 SQ	\870	DUAL 16-BY-4 REGISTER FILE
871	DIP28-600	\871	DUAL 16-BY-4 REGISTER FILE
871-CC	PLCC28SQ:LCC28 SQ	\871	DUAL 16-BY-4 REGISTER FILE
873	DIP24-300	\873	DUAL 4-BIT D-TYPE LATCH
874	DIP24-300	\874	DUAL 4-BIT D-TYPE EDGE-TRIGGERED FLIP- FLOP

**Table 12-1. TI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
876	DIP24-300	\876	DUAL 4-BIT D-TYPE EDGE-TRIGGERED FLIP-FLOP
877	DIP24-300	\877	8-BIT UNIVERSAL TRANSCEIVER PORT CONTROLLER
877-CC	PLCC28SQ:LCC28SQ	\877	8-BIT UNIVERSAL TRANSCEIVER PORT CONTROLLER
878	DIP24-300	\874	DUAL 4-BIT D-TYPE EDGE-TRIGGERED FLIP-FLOP
879	DIP24-300	\876	DUAL 4-BIT D-TYPE EDGE-TRIGGERED FLIP-FLOP
880	DIP24-300	\880	DUAL 4-BIT D-TYPE LATCH
881	DIP24-300:SO24WB	\181	ARITHMETIC LOGIC UNIT/FUNCTION GENERATOR
881-CC	PLCC28SQ:LCC28SQ	\181	ARITHMETIC LOGIC UNIT/FUNCTION GENERATOR
881A	DIP24-300:SO24WB	\181	ARITHMETIC LOGIC UNIT/FUNCTION GENERATOR
881A-CC	PLCC28SQ:LCC28SQ	\181	ARITHMETIC LOGIC UNIT/FUNCTION GENERATOR
882	DIP24-300:SO24WB	\882	32-BIT LOOK-AHEAD CARRY GENERATOR
882A	DIP24-300:SO24WB	\882	32-BIT LOOK-AHEAD CARRY GENERATOR
882A-CC	PLCC28SQ:LCC28SQ	\882	32-BIT LOOK-AHEAD CARRY GENERATOR
885	DIP24-300	\885	8-BIT MAGNITUDE COMPARATOR
885-CC	PLCC28SQ:LCC28SQ	\885	8-BIT MAGNITUDE COMPARATOR
889	DIP16	\89	64-BIT READ/WRITE RAM
890	DIP14	\90	DECADE COUNTER
890A	DIP14	\90	DECADE COUNTER
891	DIP14:SO14NB	\91	8-BIT SHIFT REGISTER
891A	DIP14:SO14NB	\91	8-BIT SHIFT REGISTER
892	DIP14:SO14NB	\92	DIVIDE BY 12 COUNTER



**Table 12-1. TI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
92A	DIP14:SO14NB	\92	DIVIDE BY 12 COUNTER
93	DIP14:SO14NB	\92	4 BIT BINARY COUNTER
94	DIP16	\94	4-BIT SHIFT REGISTER
95	DIP14:SO14NB	\95	4-BIT SHIFT REGISTER
95A	DIP14:SO14NB	\95	4-BIT SHIFT REGISTER
96	DIP16	\96	5-BIT SHIFT REGISTER
963	DIP20:SO20WB	\963	DUAL-RANK 8-BIT SHIFT REGISTER
963-CC	PLCC20SQ:LCC20 SQ	\963	DUAL-RANK 8-BIT SHIFT REGISTER
964	DIP20:SO20WB	\964	DUAL-RANK 8-BIT SHIFT REGISTER
964-CC	PLCC20SQ:LCC20 SQ	\964	DUAL-RANK 8-BIT SHIFT REGISTER
97	DIP16	\97	SYNCHRONOUS 6-BIT BINARY RATE MULTIPLIER
990	DIP20:SO20WB	\990	8-BIT D-TYPE TRANSPARENT READ-BACK LATCH
990-CC	PLCC20SQ:LCC20 SQ	\990	8-BIT D-TYPE TRANSPARENT READ-BACK LATCH
991	DIP20:SO20WB	\991	8-BIT D-TYPE TRANSPARENT READ-BACK LATCH
991-CC	PLCC20SQ:LCC20 SQ	\991	8-BIT D-TYPE TRANSPARENT READ-BACK LATCH
992	DIP24- 300:SO24WB	\992	9-BIT D-TYPE TRANSPARENT READ-BACK LATCH
993	DIP24- 300:SO24WB	\993	9-BIT D-TYPE TRANSPARENT READ-BACK LATCH
993-CC	PLCC28SQ:LCC28 SQ	\993	9-BIT D-TYPE TRANSPARENT READ-BACK LATCH
994	DIP24- 300:SO24WB	\994	10-BIT D-TYPE TRANSPARENT READ-BACK LATCH
994-CC	PLCC28SQ:LCC28 SQ	\994	10-BIT D-TYPE TRANSPARENT READ-BACK LATCH
995	DIP24- 300:SO24WB	\995	10-BIT D-TYPE TRANSPARENT READ-BACK LATCH

**Table 12-1. TI Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
996	DIP24-300:SO24WB	\996	8-BIT D-TYPE EDGE-TRIGGERED READ-BACK LATCH
996-CC	PLCC28SQ:LCC28SQ	\996	8-BIT D-TYPE EDGE-TRIGGERED READ-BACK LATCH

## Chapter 13

# Misc Library

The following table lists all the part types in the misc sample library. This listing is based on the part types and lists any associated PCB Decals and Logic Decals. The associated PCB and/or Logic decals are not necessarily sourced from the same library as the part type.

**Table 13-1. Misc Library Part Types**

Part Type	PCB Decals	Logic Decals	Description
24C16	DIP8	24C16	2048 X 8 BIT I2C BUS EEPROM
27512	DIP28-600	27512	64K X 8 BIT EPROM
28C010	DIP32-600	RS128K8:RS128K8-A	128K X 8 BIT CMOS EEPROM
2N4030	TO-39	NPN-V:NPN-VA:NPN-H:NPN-HA	PNP TO39 POWER TRANSISTOR
28416	DIP18	RD16K4	16K X 4 DRAM
2864	DIP16	RD256K1	64K X 1 DRAM
30256	DIP16	RD256K1	256K X 1 DRAM
30257	DIP16	RD256K1	256K X 1 DRAM
6116	DIP24-600	6116	2048 X 8 STATIC RAM
6167	DIP20	6167	16K-WORD X 1-BIT HIGH SPEED CMOS STATIC RAM
6167SA	DIP20	6167	16K-WORD X 1-BIT HIGH SPEED CMOS STATIC RAM
6167SL	DIP20	6167	16K-WORD X 1-BIT HIGH SPEED CMOS STATIC RAM
6168	DIP20	6168	4K X 4-BIT HIGH SPEED CMOS STATIC RAM
62256	DIP28-600:DIP28-300	RS32K8	32K X 8 BIT HIGH SPEED CMOS STATIC RAM
6287	DIP22-300	6287	65K X 1 BIT HIGH SPEED CMOS STATIC RAM
74FCT16244T	SOP48		
83C154	DIP40-600	83C154	ENHANCED 80C51 MICROCONTROLLER 16K ROM

**Table 13-1. Misc Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
87C652	DIP40-600	87C652	CMOS 8-BIT MICROCONTROL CPU + I2C 8K EPROM
BAW62	DO7:DO35:DO41	DIO-H:DIO-V	DIODE
BF926	TO-92	PNP-V:PNP-VA:PNP-H:PNP-HA	BEC PNP SMALL SIGNAL RF TRANSISTOR
B3SJ174	TO-92	JFETP-V	SGD PCH JFET SMALL SIGNAL TRANSISTOR
B3ST100	TO-92	MFETP-V	SGD PCH MOSFET SMALL SIGNAL TRANSISTOR
B3ST72	TO-92	MFETN-V	SGD NCH MOSFET SMALL SIGNAL TRANSISTOR
BT139	TO-220	TRIAC-V	TRIAC TO220 POWER
BT149-E	TO-92	SCR-V	SCR SMALL SIGNAL
BT149-M	TO-92	SCR-V	SCR SMALL SIGNAL
BT152	TO-220	SCR-V	SCR TO220 POWER
BUZ71	TO-220	MFETN-V	GDS NCH MOSFET TO220 POWER TRANSISTOR
CAP-AE4	AE4	CAP+:CAPA+:CAPH+:CAPAH+	ALUMINUM ELECTROLYTIC CAP.
CAP-AE5	AE5	CAP+:CAPA+:CAPH+:CAPAH+	ALUMINUM ELECTROLYTIC CAP.
CAP-AE6.3	AE6.3	CAP+:CAPA+:CAPH+:CAPAH+	ALUMINUM ELECTROLYTIC CAP.
CAP-B6	B6	CAP+:CAPA+:CAPH+:CAPAH+	ALUMINUM ELECTROLYTIC CAP.
CAP-C6	C6	CAP+:CAPA+:CAPH+:CAPAH+	ALUMINUM ELECTROLYTIC CAP.
CAP-CC05	CK05	CAP:CAPA:CAPH:CAPAH	RADIAL CERAMIC CAPACITOR, MIL-SPEC SIZE CK05
CAP-CC06	CK06	CAP:CAPA:CAPH:CAPAH	RADIAL CERAMIC CAPACITOR, MIL-SPEC SIZE CK06
CAP-CC07	CC07	CAP:CAPA:CAPH:CAPAH	RADIAL CERAMIC CAPACITOR, MIL-SPEC SIZE CC07
CAP-CC08	CC08	CAP:CAPA:CAPH:CAPAH	RADIAL CERAMIC CAPACITOR, MIL-SPEC SIZE CC08
CAP-CCR05	CK05	CAP:CAPA:CAPH:CAPAH	RADIAL CERAMIC CAPACITOR, MIL-SPEC SIZE CK05

**Table 13-1. Misc Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CAP-CCR06	CK06	CAP:CAPA:CAPH:CAPAH	RADIAL CERAMIC CAPACITOR, MIL-SPEC SIZE CK06
CAP-CFR04R-A	CFR04R-A	CAP:CAPA:CAPH:CAPAH	RADIAL FILM CAPACITOR, MIL-SPEC SIZE CFR04R SIZE 'A'
CAP-CFR04R-B	CFR04R-B	CAP:CAPA:CAPH:CAPAH	RADIAL FILM CAPACITOR, MIL-SPEC SIZE CFR04R SIZE 'B'
CAP-CFR04R-C	CFR04R-C	CAP:CAPA:CAPH:CAPAH	RADIAL FILM CAPACITOR, MIL-SPEC SIZE CFR04R SIZE 'C'
CAP-CFR04R-D	CFR04R-D	CAP:CAPA:CAPH:CAPAH	RADIAL FILM CAPACITOR, MIL-SPEC SIZE CFR04R SIZE 'D'
CAP-CFR04R-E	CFR04R-E	CAP:CAPA:CAPH:CAPAH	RADIAL FILM CAPACITOR, MIL-SPEC SIZE CFR04R SIZE 'E'
CAP-CFR04R-H	CFR04R-H	CAP:CAPA:CAPH:CAPAH	RADIAL FILM CAPACITOR, MIL-SPEC SIZE CFR04R SIZE 'H'
CAP-CFR04R-J	CFR04R-J	CAP:CAPA:CAPH:CAPAH	RADIAL FILM CAPACITOR, MIL-SPEC SIZE CFR04R SIZE 'J'
CAP-CK05	CK05	CAP:CAPA:CAPH:CAPAH	RADIAL CERAMIC CAPACITOR, MIL-SPEC SIZE CK05
CAP-CK06	CK06	CAP:CAPA:CAPH:CAPAH	RADIAL CERAMIC CAPACITOR, MIL-SPEC SIZE CK06
CAP-CK12	CK12	CAP:CAPA:CAPH:CAPAH	AXIAL CERAMIC CAPACITOR, MIL-SPEC SIZE CK12
CAP-CK13	CK13	CAP:CAPA:CAPH:CAPAH	AXIAL CERAMIC CAPACITOR, MIL-SPEC SIZE CK13
CAP-CK14	CK14	CAP:CAPA:CAPH:CAPAH	AXIAL CERAMIC CAPACITOR, MIL-SPEC SIZE CK14
CAP-CK15	CK15	CAP:CAPA:CAPH:CAPAH	AXIAL CERAMIC CAPACITOR, MIL-SPEC SIZE CK15
CAP-CK16	CK16	CAP:CAPA:CAPH:CAPAH	AXIAL CERAMIC CAPACITOR, MIL-SPEC SIZE CK16
CAP-CSR09-A	CSR09-A	CAP+:CAPA+:CAPH+:CAPAH+	POLAR MINI SOLID TANT. CAP. MIL-SPEC SIZE CSR09 CASE 'A'
CAP-CSR09-B	CSR09-B	CAP+:CAPA+:CAPH+:CAPAH+	POLAR MINI SOLID TANT. CAP. MIL-SPEC SIZE CSR09 CASE 'B'
CAP-CSR13-A	CSR13-A	CAP+:CAPA+:CAPH+:CAPAH+	POLARIZED SOLID TANT. CAP. MIL-SPEC SIZE CSR13 CASE 'A'

**Table 13-1. Misc Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
CAP-CSR13-B	CSR13-B	CAP+:CAPA+:CAPH+:CAPA H+	POLARIZED SOLID TANT. CAP. MIL-SPEC SIZ CSR13 CASE 'B'
CAP-CSR13-C	CSR13-C	CAP+:CAPA+:CAPH+:CAPA H+	POLARIZED SOLID TANT. CAP. MIL-SPEC SIZ CSR13 CASE 'C'
CAP-CSR13-D	CSR13-D	CAP+:CAPA+:CAPH+:CAPA H+	POLARIZED SOLID TANT. CAP. MIL-SPEC SIZ CSR13 CASE 'D'
CAP-CSR33-A	CSR13-A	CAP+:CAPA+:CAPH+:CAPA H+	POLARIZED SOLID TANT. CAP. MIL-SPEC SIZ CSR13 CASE 'A'
CAP-CSR33-B	CSR13-B	CAP+:CAPA+:CAPH+:CAPA H+	POLARIZED SOLID TANT. CAP. MIL-SPEC SIZ CSR13 CASE 'B'
CAP-CSR33-C	CSR13-C	CAP+:CAPA+:CAPH+:CAPA H+	POLARIZED SOLID TANT. CAP. MIL-SPEC SIZ CSR13 CASE 'C'
CAP-CSR33-D	CSR13-D	CAP+:CAPA+:CAPH+:CAPA H+	POLARIZED SOLID TANT. CAP. MIL-SPEC SIZ CSR13 CASE 'D'
CAP-CSR91-A	CSR91-A	CAP:CAPA:CAPH:CAPAH	AXIAL SOLID TANTALUM CAP, MIL-SPEC SIZ CSR91 CASE 'A'
CAP-CSR91-B	CSR91-B	CAP:CAPA:CAPH:CAPAH	AXIAL SOLID TANTALUM CAP, MIL-SPEC SIZ CSR91 CASE 'B'
CAP-CSR91-C	CSR91-C	CAP:CAPA:CAPH:CAPAH	AXIAL SOLID TANTALUM CAP, MIL-SPEC SIZ CSR91 CASE 'C'
CAP-CSR91-D	CSR91-D	CAP:CAPA:CAPH:CAPAH	AXIAL SOLID TANTALUM CAP, MIL-SPEC SIZ CSR91 CASE 'D'
CAP-CX01-B	CX05-B	CAP+:CAPA+:CAPH+:CAPA H+	POLARIZED SOLID TANT. CAP. MIL-SPEC SIZ CX05 CASE 'B'
CAP-CX02-A	CX02-A	CAP+:CAPA+:CAPH+:CAPA H+	POL. DIPPED SOLID TANT. CAP. MIL-SPEC SIZ CX02 CASE 'A'
CAP-CX02-B	CX02-B	CAP+:CAPA+:CAPH+:CAPA H+	POL. DIPPED SOLID TANT. CAP. MIL-SPEC SIZ CX02 CASE 'B'
CAP-CX02-C	CX02-C	CAP+:CAPA+:CAPH+:CAPA H+	POL. DIPPED SOLID TANT. CAP. MIL-SPEC SIZ CX02 CASE 'C'
CAP-CX02-D	CX02-D	CAP+:CAPA+:CAPH+:CAPA H+	POL. DIPPED SOLID TANT. CAP. MIL-SPEC SIZ CX02 CASE 'D'
CAP-CX05-A	CX05-A	CAP+:CAPA+:CAPH+:CAPA H+	POLARIZED SOLID TANT. CAP. MIL-SPEC SIZ CX05 CASE 'A'
CAP-CX05-B	CX05-B	CAP+:CAPA+:CAPH+:CAPA H+	POLARIZED SOLID TANT. CAP. MIL-SPEC SIZ CX05 CASE 'B'

**Table 13-1. Misc Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
CAP-CX05-C	CX05-C	CAP+:CAPA+:CAPH+:CAPA H+	POLARIZED SOLID TANT. CAP. MIL-SPEC SIZ CX05 CASE 'C'
CAP-CX05-D	CX05-D	CAP+:CAPA+:CAPH+:CAPA H+	POLARIZED SOLID TANT. CAP. MIL-SPEC SIZ CX05 CASE 'D'
CAP-CX12-A	CX12-A	CAP+:CAPA+:CAPH+:CAPA H+	POL. DIPPED SOLID TANT. CAP. MIL-SPEC SIZ CX12 CASE 'A'
CAP-CX12-B	CX12-B	CAP+:CAPA+:CAPH+:CAPA H+	POL. DIPPED SOLID TANT. CAP. MIL-SPEC SIZ CX12 CASE 'B'
CAP-D6	D6	CAP+:CAPA+:CAPH+:CAPA H+	ALUMINUM ELECTROLYTIC CAP.
CAP-D8	D8	CAP+:CAPA+:CAPH+:CAPA H+	ALUMINUM ELECTROLYTIC CAP.
CAP-ELECTAA	ELECTAA	CAP+:CAPA+:CAPH+:CAPA H+	ELECTROLYTIC CAP., CASE SIZ "AA"
CAP-ELECTBB	ELECTBB	CAP+:CAPA+:CAPH+:CAPA H+	ELECTROLYTIC CAP., CASE SIZ "BB"
CAP-MELF1	MELF1	CAP+:CAPA+:CAPH+:CAPA H+	SURFACE MOUNT MELF, 0.091 X 0.232
CAP-MELF2	MELF2	CAP+:CAPA+:CAPH+:CAPA H+	SURFACE MOUNT MELF, 0.049 X 0.078
CAP-MELF3	MELF3	CAP+:CAPA+:CAPH+:CAPA H+	SURFACE MOUNT MELF, 0.061 X 0.138
CAP-MICA1	MICA1	CAP+:CAPA+:CAPH+:CAPA H+	MICA TANTALUM CAPACITOR 5.69 X 10.9 M
CAP-MLL34	MLL34	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR, MELF (SOD-8
CAP-MLL41	MLL41	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR, MELF
CAP-NEC-B	NEC-B	CAP+:CAPA+:CAPH+:CAPA H+	SURFACE MOUNT TANT. CAPACITOR, NEC T CASE SIZE
CAP-NEC-C	NEC-C	CAP+:CAPA+:CAPH+:CAPA H+	SURFACE MOUNT TANT. CAPACITOR, NEC T CASE SIZE
CAP-NEC-D	NEC-D	CAP+:CAPA+:CAPH+:CAPA H+	SURFACE MOUNT TANT. CAPACITOR, NEC T CASE SIZE
CAP-SOD87	SOD87	CAP+:CAPA+:CAPH+:CAPA H+	SURFACE MOUNT MELF, 0.063 X 0.138 (SOD-8
CAP0603	603	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR 0.031 X 0.061 INCHES

**Table 13-1. Misc Library Part Types (cont.)**

<b>Part Type</b>	<b>PCB Decals</b>	<b>Logic Decals</b>	<b>Description</b>
CAP0805	805	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR 0.048 X 0.079 INCHES
CAP0805MIL	0805MIL	CAP:CAPA:CAPH:CAPAH	MILSPEC 0805 BODY FOR CAPACITOR
CAP1005	1005	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR 0.050 X 0.100 INCHES
CAP1005MIL	1005MIL	CAP:CAPA:CAPH:CAPAH	MILSPEC 1005 BODY FOR RES. OR CAP.
CAP1206	1206	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR 0.062 X 0.126 INCHES
CAP1206MIL	1206MIL	CAP:CAPA:CAPH:CAPAH	MILSPEC 1206 BODY FOR CAPACITOR
CAP1206WS	1206WS	CAP:CAPA:CAPH:CAPAH	1206 BODY OPTIMIZED FOR WAVE SOLDER
CAP1210	1210	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR 0.098 X 0.126 INCHES
CAP1210MIL	1210MIL	CAP:CAPA:CAPH:CAPAH	MILSPEC 1210 BODY FOR CAPACITOR
CAP1210WS	1210WS	CAP:CAPA:CAPH:CAPAH	1210 BODY OPTIMIZED FOR WAVE SOLDER
CAP1505MIL	1505MIL	CAP:CAPA:CAPH:CAPAH	MILSPEC 1505 BODY FOR A CAPACITOR
CAP1510MIL	1510MIL	CAP:CAPA:CAPH:CAPAH	MILSPEC 1510 BODY
CAP1706MIL	1706MIL	CAP:CAPA:CAPH:CAPAH	MILSPEC 1706 BODY
CAP1805	1805	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR 0.050 X 0.180 INCHES
CAP1808	1808	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR 0.080 X 0.180 INCHES
CAP1808MIL	1808MIL	CAP:CAPA:CAPH:CAPAH	MILSPEC 1808 CAPACITOR BODY
CAP1812	1812	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR 0.125 X 0.180 INCHES
CAP1812MIL	1812MIL	CAP:CAPA:CAPH:CAPAH	MILSPEC 1812 CAPACITOR BODY
CAP1825	1825	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR 0.250 X 0.180 INCHES
CAP2010	2010	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR 0.100 X 0.200 INCHES
CAP2010MIL	2010MIL	CAP:CAPA:CAPH:CAPAH	MILSPEC 2010 BODY
CAP2220	2220	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR 0.200 X 0.220 INCHES



**Table 13-1. Misc Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
CAP2225	2225	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR 0.250 X 0.220 INCHES
CAP2512	2512	CAP:CAPA:CAPH:CAPAH	SURFACE MOUNT CAPACITOR 0.126 X 0.248 INCHES
CAP3216	3216	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR 'A' CASE SIZE
CAP3518	3518	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR, EXTENDED RANGE 3518
CAP3527	3527	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR, EXTENDED RANGE 3527
CAP3528	3528	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR 'B' CASE SIZE
CAP3825	3825	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR, 'D' CASE SIZE
CAP4526	4526	CAP+:CAPA+:CAPH+:CAPAH+	TANTALUM CAPACITOR 2.6 X 4.6 MM
CAP5125	5125	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR, 'E' CASE SIZE
CAP5534	5534	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR, 'F' CASE SIZE
CAP5845	5845	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR, 'E' CASE SIZE
CAP6032	6032	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR 'C' CASE SIZE
CAP6728	6728	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR, 'G' CASE SIZE
CAP7041	7041	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR, 'H' CASE SIZE
CAP7227	7227	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR, EXTENDED RANGE 7227
CAP7243	7243	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR 'D' CASE SIZE
CAP7257	7257	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR, EXTENDED RANGE 7257
CAP7343	7343	CAP+:CAPA+:CAPH+:CAPAH+	SURFACE MOUNT TANT. CAPACITOR, 'D' CASE SIZE

**Table 13-1. Misc Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
CAPMICA1	MICA1	CAP:CAPA:CAPH:CAPAH	MICA TANTALUM CAPACITOR 5.69 X 10.9 M
CAP_0805	805		
CAP_10N_1206	1206		
CAP_7343	7343		
CL25		CAP:CAPA:CAPH:CAPAH	Cap Axial, Body: 300,130 Centres:400
CONHDR50DR-R	CONHDR50DR-R		
CONHDR5RA	CONHDR5RA		
CON\26P\ED	CON\26P\ED	EXTIN:EXTOUT	26 PIN EDGE CONNECTOR
COUPONA	COUPONA		
COUPONB	COUPONB		
COUPOND	COUPOND		
COUPONE	COUPONE		
DCAP1	DCAP1	CAP:CAPA:CAPH:CAPAH	DECOUP CAP AXIAL BODY: .200 X.100 CENTERS: .300
DIODE	DO7:DO35:DO41	DIO-H:DIO-V	GENERIC DIODE W ALTERNATE
DRIVER-FET	DIP14	DRIVER-INV:DRIVER- NON:DRIVER-INV- NP:DRIVER-NON-NP	INV AND NONINV FET DRIVER
DRIVER-FET- NON	DIP8	DRIVER-NON:DRIVER- NON-NP	NONINV FET DRIVER
DVRKEY	COBA-MT-1100	SW-SPDT	DVR FRONT PANEL KEY, USES COBA OR NK SWITCH
EMI-CHOKE	MBS-CHOKE	EMI-CHOKE	EMI LINE FILTER
FLASH_SO32M1	SO32M1		
FUSE	FUSE-5MM:FUSE- 5MMA	FUSE-H:FUSE-V	
FUSE-PCB	LITTELFUSE-345	FUSE	FUSE HOLDER, PCB MOUNT, 1.25 X .25" FUSE
FUSE-PCB- CLIPS	FUSE-PCB-CLIPS	FUSE	FUSE HOLDER, PCB MOUNT CLIPS, 1.25 X .25 FUSES
GAL20V8	DIP24-300	PAL20V8	24-PIN EECMOS PROGRAMMABLE ARRAY LOGIC (PAL) ELEM

Table 13-1. Misc Library Part Types (cont.)

Part Type	PCB Decals	Logic Decals	Description
HEADER-4X2POL	HEADER8-POL	HEADER\4X2POL	4 X 2 PIN POLARIZED HEADER, 0.1" CENTER
HEADER-5X2POL	HEADER10-POL	HEADER\5X2	5 X 2 PIN POLARIZED HEADER, 0.1" CENTER
HEADER-7X2POL	HEADER14-POL	HEADER\7X2	7 X 2 PIN POLARIZED HEADER, 0.1" CENTER
IMS-T425	PGA-84	IMS-T425	MICROPROCESSOR
IMS-T425-CC	LCC84SQ	IMS-T425	MICROPROCESSOR PLCC VERSION
IND-MOLDED	IND-MOLDED	INDUCTOR	MOLDED INDUCTOR, 0.5" PIN SPACING
IND-UPRIGHT	IND-UPRIGHT	INDUCTOR\CORE	UPRIGHT INDUCTOR WITH CORE
L387	TO-220-5PIN	L387	5V 500MA LINEAR REGULATOR WITH RESET GENERATOR
LED	LED:LED-S	LED:LED-V	LIGHT EMITTING DIODE
LED-1	LED-1	LED:LED-V	LED
MAX232	DIP16	MAX232	+5V POWERED RS-232 DRIVER/RECEIVER
MC68302	PQFP132		
80C652	DIP40-600	DIP38	8-BIT CONTROL-ORIENTED MICROCOMPUTER 8051 KERNAL
83C652	DIP40-600	DIP38	8-BIT CONTROL-ORIENTED MICROCOMPUTER 8051 KERNAL
87C652	DIP40-600	DIP38	8-BIT CONTROL-ORIENTED MICROCOMPUTER 8051 KERNAL
PH2955T	TO-220	NPN-V:NPN-VA:NPN-H:NPN-HA	PNP TO220 POWER TRANSISTOR
PH3055T	TO-220	NPN-V:NPN-VA:NPN-H:NPN-HA	NPN TO220 POWER TRANSISTOR
R1/8W	R1/8W:R1/8WA:R1/8WB	RESZ-H:RESZ-V:RESB-H:RESB-V	RES BODY:060 CENTERS:400
R1206_0	1206		
R1206_10K	1206		
R1206_698K	1206		
RES-1/2W	R1/2W:R1/2WA	RESZ-H:RESZ-V:RESB-H:RESB-V	RES BODY:150 CENTERS:600

**Table 13-1. Misc Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
RES-1/4W	R1/4W:R1/4WA:R1/4WB	RESZ-H:RESZ-V:RESB-H:RESB-V	RES BODY:100 CENTERS:500
RES-1/8W	R1/8W:R1/8WA:R1/8WB	RESZ-H:RESZ-V:RESB-H:RESB-V	RES BODY:060 CENTERS:400
RES-1W	R1W	RESZ-H:RESZ-V:RESB-H:RESB-V	RES BODY:250 CENTERS:800
RES-2W	R2W	RESZ-H:RESZ-V:RESB-H:RESB-V	RES BODY:340 CENTERS:1000
RES-3W	R3W	RESZ-H:RESZ-V:RESB-H:RESB-V	RES BODY:250 CENTERS:800
RES-DIP147RES	DIP14	RESZ-H:RESZ-V:RESB-H:RESB-V	DIP RESISTOR 14 PINS 7 ISOLATED RESISTORS
RES-DIP168RES	DIP16	RESZ-H:RESZ-V:RESB-H:RESB-V	DIP RESISTOR 16 PINS 8 ISOLATED RESISTORS
RES-MLL34	MLL34	RESZ-H:RESZ-V:RESB-H:RESB-V	SURFACE MOUNT RESISTOR, MELF (SOD-80)
RES-MLL41	MLL41	RESZ-H:RESZ-V:RESB-H:RESB-V	SURFACE MOUNT RESISTOR, MELF
RES-RESN1	RESN1	RESZ-H:RESZ-V:RESB-H:RESB-V	SURFACE MOUNT CERAMIC RESONATOR 3.4 7.4 MM
RES-SIP10P5R	SIP-10P	RESZ-H:RESZ-V:RESB-H:RESB-V	SIP RESISTOR 10 PINS 5 ISOLATED RESISTORS
RES-SIP10P9R	SIP-10P	RESZ-H:RESZ-V:RESB-H:RESB-V:RESZ-H1P:RESZ-V1P:RESB-H1P:RESB-V1P	10-PIN SIP RESISTOR
RES-SIP10P9R+5	SIP-10P	RESZ-H5:RESZ-V5:RESB-H5:RESB-V5	SIP RESISTOR 10 PINS 9 RESISTORS TO +5V
RES-SIP10P9RG	SIP-10P	RESZ-HG:RESZ-VG:RESB-HG:RESB-VG	SIP RESISTOR 10 PINS 9 RESISTORS COMMON
RES-SIP8P4R	SIP-8P	RESZ-H:RESZ-V:RESB-H:RESB-V	SIP RESISTOR 8 PINS 4 ISOLATED RESISTORS
RES-SIP8P7R	SIP-8P	RESZ-H:RESZ-V:RESB-H:RESB-V:RESZ-H1P:RESZ-V1P:RESB-H1P:RESB-V1P	8-PIN SIP RESISTOR PACK
RES-SIP8P7R+5	SIP-8P	RESZ-H5:RESZ-V5:RESB-H5:RESB-V5	SIP RESISTOR 8 PINS 7 RESISTORS TO +5V

**Table 13-1. Misc Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
RES-SIP8P7RG	SIP-8P	RESZ-HG:RESZ-VG:RESB-HG:RESB-VG	SIP RESISTOR 8 PINS 7 RESISTORS COM GND
RES-WR1	WR1	RESZ-H:RESZ-V:RESB-H:RESB-V	WIRE WOUND RESISTOR 3.4 X 7.05 MM
RES-WR2	WR2	RESZ-H:RESZ-V:RESB-H:RESB-V	WIRE WOUND RESISTOR 5.9 X 12.07 MM
RES-WR3	WR3	RESZ-H:RESZ-V:RESB-H:RESB-V	WIRE WOUND RESISTOR 6.3 X 15.25 MM
RES0402	402	RESZ-H:RESZ-V:RESB-H:RESB-V	SURFACE MOUNT RESISTOR 0.020 X 0.040 INCHES, 1/16W
RES0603	603	RESZ-H:RESZ-V:RESB-H:RESB-V	SURFACE MOUNT RESISTOR 0.031 X 0.061 INCHES, 1/10W
RES0805	805	RESZ-H:RESZ-V:RESB-H:RESB-V	SURFACE MOUNT RESISTOR 0.048 X 0.079 INCHES
RES0805MIL	0805MIL	RESZ-H:RESZ-V:RESB-H:RESB-V	MILSPEC 0805 BODY FOR RESISTOR
RES1206	1206	RESZ-H:RESZ-V:RESB-H:RESB-V	SURFACE MOUNT RESISTOR 0.062 X 0.126 INCHES, 1/8W
RES1206MIL	1206MIL	RESZ-H:RESZ-V:RESB-H:RESB-V	MILSPEC 1206 BODY FOR RESISTOR
RES1210	1210	RESZ-H:RESZ-V:RESB-H:RESB-V	SURFACE MOUNT RESISTOR 0.098 X 0.126 INCHES, 1/4W
RES1210MIL	1210MIL	RESZ-H:RESZ-V:RESB-H:RESB-V	MILSPEC 1210 BODY FOR RESISTOR
RES2010	2010	RESZ-H:RESZ-V:RESB-H:RESB-V	SURFACE MOUNT RESISTOR 0.100 X 0.200 INCHES, 1/2W
RES2512	2512	RESZ-H:RESZ-V:RESB-H:RESB-V	SURFACE MOUNT RESISTOR 0.126 X 0.248 INCHES, 1W
RLY-MZ-SPDT	RLY-MZ	RLY-SPDT	1A SPDT RELAY 16 X 12 DUAL INLINE PITCH
RLY-RLY11-DPDT	RELAY-3	RLY-DPDT	240V/5A 4KVI DPDT RELAY 29x13
RLY-RLY11-SPDT	RELAY-SPCO	RLY-SPDT	240V/10A SPDT RELAY 29 X 13
RLY-RY-DPDT	RLY-RY	RLY-SW-SPDT:RLY-COIL	1A DPDT relay 20x10
RLY-SPDT	RLY-MZ	RLY-SPDT	Generic SPDT relay

**Table 13-1. Misc Library Part Types (cont.)**

Part Type	PCB Decals	Logic Decals	Description
SW-COBA-MT1100	COBA-MT-1100	SW-SPDT	COBA MT-1100 SPDT MOMENTARY PUSHBUTTON SWITCH
SW-NKK-JF15	SW-NKK-JF15	SW-SPST-NO	NKK SPST N/O MOMENTARY PUSHBUTTON SWITCH
SW-ROCKER-DPDT-V	SW-ROCKER-DPDT-V	SW-SPDT	DPDT ROCKER SWITCH, VERTICAL PCB MOUNT
SW-SPDT	SPDT-AV2	SW-SPDT	DPDT Switch 1:C 2:NC 3:NO
SW-SPST-NC	SPDT-AV2	SW-SPST-NC	SPST Switch 1:C 2:NC
SW-SPST-NO	SPDT-AV2	SW-SPST-NO	SPST Switch 1:C 2:NO
SWITCH-SP	MBS-JUMPER:MBS-JUMPERB	RLY-SW-SPDT	SWITCH
SWITCH-ST	MBS-JUMPERC	SWITCH-ST	WIRE CONNECTION
TCM3105	DIP16	TCM3105	SINGLE CHIP FSK MODEM, BELL 202/V23
UC3526A	DIP18	UC3526A	REGULATED PWM
UC3823	DIP16	UC3823	PWM SINGLE OUTPUT CONTROLLER
VRES	VRES	VRESZ-H:VRESZ-V	VARIABLE RESISTOR (POT)
VRES-TOP-ADJ	VRES-TOP-ADJ	VRESZ-H:VRESZ-V	VARIABLE RESISTOR (TOP ADJUST TYPE)
XFMR-MBS\ISO	BOBBIN-RM10:BOBBIN-RM10A	XFMR-ONESIDE:XFMR-1SIDE-VERT:XFMR-SM-1SIDE:XFMR-SM-1SIDE-VT	MAIN ISOLATION XFRM WITH 2 XTRA WINDINGS
XFMR-SM-SPLIT	MBS-GATE-XFRM:MBS-GATE-XFRMA	XFMR-SM-1SIDE:XFMR-SM-1SIDE-VT	
XFMR-SPLIT	BOBBIN-RM10:BOBBIN-RM10A	XFMR-ONESIDE:XFMR-1SIDE-VERT	
XFMR-TA-10-08	DALE-TA-10-08	TRANSFORMER	600 - 600 OHM TELEPHONE COUPLING AUDIO TRANSFORMER
XTAL1	XTAL1	XTAL:XTALH	CRYSTAL
XTAL2	XTAL2	XTAL:XTALH	CRYSTAL WITH GND POST
XTAL_20M	XTAL_HC49SMT		
XTAL_3584K	XTAL_GULL_W		
ZENER-DIODE	DO7:DO35:DO41	DIOZ-H:DIOZ-V	GENERIC ZENER-DIODE







# End-User License Agreement

The latest version of the End-User License Agreement is available on-line at:  
[www.mentor.com/eula](http://www.mentor.com/eula)

## IMPORTANT INFORMATION

**USE OF ALL SOFTWARE IS SUBJECT TO LICENSE RESTRICTIONS. CAREFULLY READ THIS LICENSE AGREEMENT BEFORE USING THE PRODUCTS. USE OF SOFTWARE INDICATES CUSTOMER'S COMPLETE AND UNCONDITIONAL ACCEPTANCE OF THE TERMS AND CONDITIONS SET FORTH IN THIS AGREEMENT. ANY ADDITIONAL OR DIFFERENT PURCHASE ORDER TERMS AND CONDITIONS SHALL NOT APPLY.**

## END-USER LICENSE AGREEMENT ("Agreement")

This is a legal agreement concerning the use of Software (as defined in Section 2) and hardware (collectively "Products") between the company acquiring the Products ("Customer"), and the Mentor Graphics entity that issued the corresponding quotation or, if no quotation was issued, the applicable local Mentor Graphics entity ("Mentor Graphics"). Except for license agreements related to the subject matter of this license agreement which are physically signed by Customer and an authorized representative of Mentor Graphics, this Agreement and the applicable quotation contain the parties' entire understanding relating to the subject matter and supersede all prior or contemporaneous agreements. If Customer does not agree to these terms and conditions, promptly return or, in the case of Software received electronically, certify destruction of Software and all accompanying items within five days after receipt of Software and receive a full refund of any license fee paid.

### 1. ORDERS, FEES AND PAYMENT.

- 1.1. To the extent Customer (or if agreed by Mentor Graphics, Customer's appointed third party buying agent) places and Mentor Graphics accepts purchase orders pursuant to this Agreement ("Order(s)"), each Order will constitute a contract between Customer and Mentor Graphics, which shall be governed solely and exclusively by the terms and conditions of this Agreement, any applicable addenda and the applicable quotation, whether or not these documents are referenced on the Order. Any additional or conflicting terms and conditions appearing on an Order will not be effective unless agreed in writing by an authorized representative of Customer and Mentor Graphics.
- 1.2. Amounts invoiced will be paid, in the currency specified on the applicable invoice, within 30 days from the date of such invoice. Any past due invoices will be subject to the imposition of interest charges in the amount of one and one-half percent per month or the applicable legal rate currently in effect, whichever is lower. Prices do not include freight, insurance, customs duties, taxes or other similar charges, which Mentor Graphics will state separately in the applicable invoice(s). Unless timely provided with a valid certificate of exemption or other evidence that items are not taxable, Mentor Graphics will invoice Customer for all applicable taxes including, but not limited to, VAT, GST, sales tax and service tax. Customer will make all payments free and clear of, and without reduction for, any withholding or other taxes; any such taxes imposed on payments by Customer hereunder will be Customer's sole responsibility. If Customer appoints a third party to place purchase orders and/or make payments on Customer's behalf, Customer shall be liable for payment under Orders placed by such third party in the event of default.
- 1.3. All Products are delivered FCA factory (Incoterms 2000), freight prepaid and invoiced to Customer, except Software delivered electronically, which shall be deemed delivered when made available to Customer for download. Mentor Graphics retains a security interest in all Products delivered under this Agreement, to secure payment of the purchase price of such Products, and Customer agrees to sign any documents that Mentor Graphics determines to be necessary or convenient for use in filing or perfecting such security interest. Mentor Graphics' delivery of Software by electronic means is subject to Customer's provision of both a primary and an alternate e-mail address.

2. **GRANT OF LICENSE.** The software installed, downloaded, or otherwise acquired by Customer under this Agreement, including any updates, modifications, revisions, copies, documentation and design data ("Software") are copyrighted, trade secret and confidential information of Mentor Graphics or its licensors, who maintain exclusive title to all Software and retain all rights not expressly granted by this Agreement. Mentor Graphics grants to Customer, subject to payment of applicable license fees, a nontransferable, nonexclusive license to use Software solely: (a) in machine-readable, object-code form (except as provided in Subsection 5.2); (b) for Customer's internal business purposes; (c) for the term of the license; and (d) on the computer hardware and at the site authorized by Mentor Graphics. A site is restricted to a one-half mile (800 meter) radius. Customer may have Software temporarily used by an employee for telecommuting purposes from locations other than a Customer office, such as the employee's residence, an airport or hotel, provided that such employee's primary place of employment is the site where the Software is authorized for use. Mentor Graphics' standard policies and programs, which vary depending on Software, license fees paid or services purchased, apply to the following: (a) relocation of Software; (b) use of Software, which may be limited, for example, to execution of a single session by a single user on the authorized hardware or for a restricted period of time (such limitations may be technically implemented through the use of authorization codes or similar devices); and (c) support services provided, including eligibility to receive telephone support, updates, modifications, and revisions. For the avoidance of doubt, if Customer requests any change or enhancement to Software, whether in the course of receiving support or consulting services, evaluating Software, performing beta testing or otherwise, any inventions, product

improvements, modifications or developments made by Mentor Graphics (at Mentor Graphics' sole discretion) will be the exclusive property of Mentor Graphics.

3. **ESC SOFTWARE.** If Customer purchases a license to use development or prototyping tools of Mentor Graphics' Embedded Software Channel ("ESC"), Mentor Graphics grants to Customer a nontransferable, nonexclusive license to reproduce and distribute executable files created using ESC compilers, including the ESC run-time libraries distributed with ESC C and C++ compiler Software that are linked into a composite program as an integral part of Customer's compiled computer program, provided that Customer distributes these files only in conjunction with Customer's compiled computer program. Mentor Graphics does NOT grant Customer any right to duplicate, incorporate or embed copies of Mentor Graphics' real-time operating systems or other embedded software products into Customer's products or applications without first signing or otherwise agreeing to a separate agreement with Mentor Graphics for such purpose.
4. **BETA CODE.**
  - 4.1. Portions or all of certain Software may contain code for experimental testing and evaluation ("Beta Code"), which may not be used without Mentor Graphics' explicit authorization. Upon Mentor Graphics' authorization, Mentor Graphics grants to Customer a temporary, nontransferable, nonexclusive license for experimental use to test and evaluate the Beta Code without charge for a limited period of time specified by Mentor Graphics. This grant and Customer's use of the Beta Code shall not be construed as marketing or offering to sell a license to the Beta Code, which Mentor Graphics may choose not to release commercially in any form.
  - 4.2. If Mentor Graphics authorizes Customer to use the Beta Code, Customer agrees to evaluate and test the Beta Code under normal conditions as directed by Mentor Graphics. Customer will contact Mentor Graphics periodically during Customer's use of the Beta Code to discuss any malfunctions or suggested improvements. Upon completion of Customer's evaluation and testing, Customer will send to Mentor Graphics a written evaluation of the Beta Code, including its strengths, weaknesses and recommended improvements.
  - 4.3. Customer agrees to maintain Beta Code in confidence and shall restrict access to the Beta Code, including the methods and concepts utilized therein, solely to those employees and Customer location(s) authorized by Mentor Graphics to perform beta testing. Customer agrees that any written evaluations and all inventions, product improvements, modifications or developments that Mentor Graphics conceived or made during or subsequent to this Agreement, including those based partly or wholly on Customer's feedback, will be the exclusive property of Mentor Graphics. Mentor Graphics will have exclusive rights, title and interest in all such property. The provisions of this Subsection 4.3 shall survive termination of this Agreement.
5. **RESTRICTIONS ON USE.**
  - 5.1. Customer may copy Software only as reasonably necessary to support the authorized use. Each copy must include all notices and legends embedded in Software and affixed to its medium and container as received from Mentor Graphics. All copies shall remain the property of Mentor Graphics or its licensors. Customer shall maintain a record of the number and primary location of all copies of Software, including copies merged with other software, and shall make those records available to Mentor Graphics upon request. Customer shall not make Products available in any form to any person other than Customer's employees and on-site contractors, excluding Mentor Graphics competitors, whose job performance requires access and who are under obligations of confidentiality. Customer shall take appropriate action to protect the confidentiality of Products and ensure that any person permitted access does not disclose or use it except as permitted by this Agreement. Customer shall give Mentor Graphics written notice of any unauthorized disclosure or use of the Products as soon as Customer learns or becomes aware of such unauthorized disclosure or use. Except as otherwise permitted for purposes of interoperability as specified by applicable and mandatory local law, Customer shall not reverse-assemble, reverse-compile, reverse-engineer or in any way derive any source code from Software. Log files, data files, rule files and script files generated by or for the Software (collectively "Files"), including without limitation files containing Standard Verification Rule Format ("SVRF") and Tcl Verification Format ("TVF") which are Mentor Graphics' proprietary syntaxes for expressing process rules, constitute or include confidential information of Mentor Graphics. Customer may share Files with third parties, excluding Mentor Graphics competitors, provided that the confidentiality of such Files is protected by written agreement at least as well as Customer protects other information of a similar nature or importance, but in any case with at least reasonable care. Customer may use Files containing SVRF or TVF only with Mentor Graphics products. Under no circumstances shall Customer use Software or Files or allow their use for the purpose of developing, enhancing or marketing any product that is in any way competitive with Software, or disclose to any third party the results of, or information pertaining to, any benchmark.
  - 5.2. If any Software or portions thereof are provided in source code form, Customer will use the source code only to correct software errors and enhance or modify the Software for the authorized use. Customer shall not disclose or permit disclosure of source code, in whole or in part, including any of its methods or concepts, to anyone except Customer's employees or contractors, excluding Mentor Graphics competitors, with a need to know. Customer shall not copy or compile source code in any manner except to support this authorized use.
  - 5.3. Customer may not assign this Agreement or the rights and duties under it, or relocate, sublicense or otherwise transfer the Products, whether by operation of law or otherwise ("Attempted Transfer"), without Mentor Graphics' prior written consent and payment of Mentor Graphics' then-current applicable relocation and/or transfer fees. Any Attempted Transfer without Mentor Graphics' prior written consent shall be a material breach of this Agreement and may, at Mentor Graphics' option, result in the immediate termination of the Agreement and/or the licenses granted under this Agreement. The terms of this Agreement, including without limitation the licensing and assignment provisions, shall be binding upon Customer's permitted successors in interest and assigns.

5.4. The provisions of this Section 5 shall survive the termination of this Agreement.

6. **SUPPORT SERVICES.** To the extent Customer purchases support services, Mentor Graphics will provide Customer updates and technical support for the Products, at the Customer site(s) for which support is purchased, in accordance with Mentor Graphics' then current End-User Support Terms located at <http://supportnet.mentor.com/about/legal/>.
7. **AUTOMATIC CHECK FOR UPDATES; PRIVACY.** Technological measures in Software may communicate with servers of Mentor Graphics or its contractors for the purpose of checking for and notifying the user of updates and to ensure that the Software in use is licensed in compliance with this Agreement. Mentor Graphics will not collect any personally identifiable data in this process and will not disclose any data collected to any third party without the prior written consent of Customer, except to Mentor Graphics' outside attorneys or as may be required by a court of competent jurisdiction.
8. **LIMITED WARRANTY.**
  - 8.1. Mentor Graphics warrants that during the warranty period its standard, generally supported Products, when properly installed, will substantially conform to the functional specifications set forth in the applicable user manual. Mentor Graphics does not warrant that Products will meet Customer's requirements or that operation of Products will be uninterrupted or error free. The warranty period is 90 days starting on the 15th day after delivery or upon installation, whichever first occurs. Customer must notify Mentor Graphics in writing of any nonconformity within the warranty period. For the avoidance of doubt, this warranty applies only to the initial shipment of Software under an Order and does not renew or reset, for example, with the delivery of (a) Software updates or (b) authorization codes or alternate Software under a transaction involving Software re-mix. This warranty shall not be valid if Products have been subject to misuse, unauthorized modification or improper installation. MENTOR GRAPHICS' ENTIRE LIABILITY AND CUSTOMER'S EXCLUSIVE REMEDY SHALL BE, AT MENTOR GRAPHICS' OPTION, EITHER (A) REFUND OF THE PRICE PAID UPON RETURN OF THE PRODUCTS TO MENTOR GRAPHICS OR (B) MODIFICATION OR REPLACEMENT OF THE PRODUCTS THAT DO NOT MEET THIS LIMITED WARRANTY, PROVIDED CUSTOMER HAS OTHERWISE COMPLIED WITH THIS AGREEMENT. MENTOR GRAPHICS MAKES NO WARRANTIES WITH RESPECT TO: (A) SERVICES; (B) PRODUCTS PROVIDED AT NO CHARGE; OR (C) BETA CODE; ALL OF WHICH ARE PROVIDED "AS IS."
  - 8.2. THE WARRANTIES SET FORTH IN THIS SECTION 8 ARE EXCLUSIVE. NEITHER MENTOR GRAPHICS NOR ITS LICENSORS MAKE ANY OTHER WARRANTIES EXPRESS, IMPLIED OR STATUTORY, WITH RESPECT TO PRODUCTS PROVIDED UNDER THIS AGREEMENT. MENTOR GRAPHICS AND ITS LICENSORS SPECIFICALLY DISCLAIM ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY.
9. **LIMITATION OF LIABILITY.** EXCEPT WHERE THIS EXCLUSION OR RESTRICTION OF LIABILITY WOULD BE VOID OR INEFFECTIVE UNDER APPLICABLE LAW, IN NO EVENT SHALL MENTOR GRAPHICS OR ITS LICENSORS BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS OR SAVINGS) WHETHER BASED ON CONTRACT, TORT OR ANY OTHER LEGAL THEORY, EVEN IF MENTOR GRAPHICS OR ITS LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL MENTOR GRAPHICS' OR ITS LICENSORS' LIABILITY UNDER THIS AGREEMENT EXCEED THE AMOUNT RECEIVED FROM CUSTOMER FOR THE HARDWARE, SOFTWARE LICENSE OR SERVICE GIVING RISE TO THE CLAIM. IN THE CASE WHERE NO AMOUNT WAS PAID, MENTOR GRAPHICS AND ITS LICENSORS SHALL HAVE NO LIABILITY FOR ANY DAMAGES WHATSOEVER. THE PROVISIONS OF THIS SECTION 9 SHALL SURVIVE THE TERMINATION OF THIS AGREEMENT.
10. **HAZARDOUS APPLICATIONS.** CUSTOMER ACKNOWLEDGES IT IS SOLELY RESPONSIBLE FOR TESTING ITS PRODUCTS USED IN APPLICATIONS WHERE THE FAILURE OR INACCURACY OF ITS PRODUCTS MIGHT RESULT IN DEATH OR PERSONAL INJURY ("HAZARDOUS APPLICATIONS"). NEITHER MENTOR GRAPHICS NOR ITS LICENSORS SHALL BE LIABLE FOR ANY DAMAGES RESULTING FROM OR IN CONNECTION WITH THE USE OF MENTOR GRAPHICS PRODUCTS IN OR FOR HAZARDOUS APPLICATIONS. THE PROVISIONS OF THIS SECTION 10 SHALL SURVIVE THE TERMINATION OF THIS AGREEMENT.
11. **INDEMNIFICATION.** CUSTOMER AGREES TO INDEMNIFY AND HOLD HARMLESS MENTOR GRAPHICS AND ITS LICENSORS FROM ANY CLAIMS, LOSS, COST, DAMAGE, EXPENSE OR LIABILITY, INCLUDING ATTORNEYS' FEES, ARISING OUT OF OR IN CONNECTION WITH THE USE OF PRODUCTS AS DESCRIBED IN SECTION 10. THE PROVISIONS OF THIS SECTION 11 SHALL SURVIVE THE TERMINATION OF THIS AGREEMENT.
12. **INFRINGEMENT.**
  - 12.1. Mentor Graphics will defend or settle, at its option and expense, any action brought against Customer in the United States, Canada, Japan, or member state of the European Union which alleges that any standard, generally supported Product acquired by Customer hereunder infringes a patent or copyright or misappropriates a trade secret in such jurisdiction. Mentor Graphics will pay costs and damages finally awarded against Customer that are attributable to the action. Customer understands and agrees that as conditions to Mentor Graphics' obligations under this section Customer must: (a) notify Mentor Graphics promptly in writing of the action; (b) provide Mentor Graphics all reasonable information and assistance to settle or defend the action; and (c) grant Mentor Graphics sole authority and control of the defense or settlement of the action.

- 12.2. If a claim is made under Subsection 12.1 Mentor Graphics may, at its option and expense, (a) replace or modify the Product so that it becomes noninfringing; (b) procure for Customer the right to continue using the Product; or (c) require the return of the Product and refund to Customer any purchase price or license fee paid, less a reasonable allowance for use.
- 12.3. Mentor Graphics has no liability to Customer if the action is based upon: (a) the combination of Software or hardware with any product not furnished by Mentor Graphics; (b) the modification of the Product other than by Mentor Graphics; (c) the use of other than a current unaltered release of Software; (d) the use of the Product as part of an infringing process; (e) a product that Customer makes, uses, or sells; (f) any Beta Code or Product provided at no charge; (g) any software provided by Mentor Graphics' licensors who do not provide such indemnification to Mentor Graphics' customers; or (h) infringement by Customer that is deemed willful. In the case of (h), Customer shall reimburse Mentor Graphics for its reasonable attorney fees and other costs related to the action.
- 12.4. THIS SECTION 12 IS SUBJECT TO SECTION 9 ABOVE AND STATES THE ENTIRE LIABILITY OF MENTOR GRAPHICS AND ITS LICENSORS FOR DEFENSE, SETTLEMENT AND DAMAGES, AND CUSTOMER'S SOLE AND EXCLUSIVE REMEDY, WITH RESPECT TO ANY ALLEGED PATENT OR COPYRIGHT INFRINGEMENT OR TRADE SECRET MISAPPROPRIATION BY ANY PRODUCT PROVIDED UNDER THIS AGREEMENT.
13. **TERMINATION AND EFFECT OF TERMINATION.** If a Software license was provided for limited term use, such license will automatically terminate at the end of the authorized term.
- 13.1. Mentor Graphics may terminate this Agreement and/or any license granted under this Agreement immediately upon written notice if Customer: (a) exceeds the scope of the license or otherwise fails to comply with the licensing or confidentiality provisions of this Agreement, or (b) becomes insolvent, files a bankruptcy petition, institutes proceedings for liquidation or winding up or enters into an agreement to assign its assets for the benefit of creditors. For any other material breach of any provision of this Agreement, Mentor Graphics may terminate this Agreement and/or any license granted under this Agreement upon 30 days written notice if Customer fails to cure the breach within the 30 day notice period. Termination of this Agreement or any license granted hereunder will not affect Customer's obligation to pay for Products shipped or licenses granted prior to the termination, which amounts shall be payable immediately upon the date of termination.
- 13.2. Upon termination of this Agreement, the rights and obligations of the parties shall cease except as expressly set forth in this Agreement. Upon termination, Customer shall ensure that all use of the affected Products ceases, and shall return hardware and either return to Mentor Graphics or destroy Software in Customer's possession, including all copies and documentation, and certify in writing to Mentor Graphics within ten business days of the termination date that Customer no longer possesses any of the affected Products or copies of Software in any form.
14. **EXPORT.** The Products provided hereunder are subject to regulation by local laws and United States government agencies, which prohibit export or diversion of certain products and information about the products to certain countries and certain persons. Customer agrees that it will not export Products in any manner without first obtaining all necessary approval from appropriate local and United States government agencies.
15. **U.S. GOVERNMENT LICENSE RIGHTS.** Software was developed entirely at private expense. All Software is commercial computer software within the meaning of the applicable acquisition regulations. Accordingly, pursuant to US FAR 48 CFR 12.212 and DFAR 48 CFR 227.7202, use, duplication and disclosure of the Software by or for the U.S. Government or a U.S. Government subcontractor is subject solely to the terms and conditions set forth in this Agreement, except for provisions which are contrary to applicable mandatory federal laws.
16. **THIRD PARTY BENEFICIARY.** Mentor Graphics Corporation, Mentor Graphics (Ireland) Limited, Microsoft Corporation and other licensors may be third party beneficiaries of this Agreement with the right to enforce the obligations set forth herein.
17. **REVIEW OF LICENSE USAGE.** Customer will monitor the access to and use of Software. With prior written notice and during Customer's normal business hours, Mentor Graphics may engage an internationally recognized accounting firm to review Customer's software monitoring system and records deemed relevant by the internationally recognized accounting firm to confirm Customer's compliance with the terms of this Agreement or U.S. or other local export laws. Such review may include FLEXlm or FLEXnet (or successor product) report log files that Customer shall capture and provide at Mentor Graphics' request. Customer shall make records available in electronic format and shall fully cooperate with data gathering to support the license review. Mentor Graphics shall bear the expense of any such review unless a material non-compliance is revealed. Mentor Graphics shall treat as confidential information all information gained as a result of any request or review and shall only use or disclose such information as required by law or to enforce its rights under this Agreement. The provisions of this Section 17 shall survive the termination of this Agreement.
18. **CONTROLLING LAW, JURISDICTION AND DISPUTE RESOLUTION.** The owners of certain Mentor Graphics intellectual property licensed under this Agreement are located in Ireland and the United States. To promote consistency around the world, disputes shall be resolved as follows: excluding conflict of laws rules, this Agreement shall be governed by and construed under the laws of the State of Oregon, USA, if Customer is located in North or South America, and the laws of Ireland if Customer is located outside of North or South America. All disputes arising out of or in relation to this Agreement shall be submitted to the exclusive jurisdiction of the courts of Portland, Oregon when the laws of Oregon apply, or Dublin, Ireland when the laws of Ireland apply. Notwithstanding the foregoing, all disputes in Asia arising out of or in relation to this Agreement shall be resolved by arbitration in Singapore before a single arbitrator to be appointed by the chairman of the Singapore International Arbitration Centre ("SIAC") to be conducted in the English language, in accordance with the Arbitration Rules of the SIAC in effect at the time of the dispute, which rules are deemed to be incorporated by reference in this section. This section shall not

restrict Mentor Graphics' right to bring an action against Customer in the jurisdiction where Customer's place of business is located. The United Nations Convention on Contracts for the International Sale of Goods does not apply to this Agreement.

19. **SEVERABILITY.** If any provision of this Agreement is held by a court of competent jurisdiction to be void, invalid, unenforceable or illegal, such provision shall be severed from this Agreement and the remaining provisions will remain in full force and effect.
20. **MISCELLANEOUS.** This Agreement contains the parties' entire understanding relating to its subject matter and supersedes all prior or contemporaneous agreements, including but not limited to any purchase order terms and conditions. Some Software may contain code distributed under a third party license agreement that may provide additional rights to Customer. Please see the applicable Software documentation for details. This Agreement may only be modified in writing by authorized representatives of the parties. Waiver of terms or excuse of breach must be in writing and shall not constitute subsequent consent, waiver or excuse.

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