PROTEUS

The Complete Electronics Design System

Component Library Documentation

Issue 1.0 – Dated 06/01/2003

Labcenter Electronics

DEVICE.LIB

Description

This library contains general schematic symbols such as resistors, capacitors, diodes and transistors.

DEVICE.LIB also contains connector symbols for use on PCBs.

Contents

AERIAL	CONN-H2	DIODE-LED	NMOSFET	REG-NEG	SW-DIP4
BATTERY	CONN-H4	DIODE-SC	NPN	REG-POS	SW-DIP7
BRIDGE	CONN-H5	DIODE-TUN	OPAMP	REL-SPM:A	SW-DIP8
BUZZER	CONN-H6	DIODE-ZEN	OPTOCOUPLER	REL-SPM:B	TERMINAL
CAP	CONN-H10	FUSE	-NAND	RELAY:A	THYRISTOR
CAP-ELEC	CONN-H12	IND-AIR	OPTOCOUPLER	RELAY:B	TRAN-2P2S
CAP-POL	CONN-H15	IND-IRON	-NPN	RES	TRAN-2P3S
CAP-PRE	CONN-H16	INDUCTOR	PIN	RES-PRE	TRAN-2P5S
CAP-VAR	CONN-H20	LAMP-FIL	PJFET	RES-VAR	TRIAC
CELL	CONN-H32	LAMP-NEON	PMOSFET	RESPACK-7	VEROPIN
CONN-D9	CRYSTAL	LED	PNP	RESPACK-8	
CONN-D15	DIAC	METER	POT	SCR	
CONN-D25	DIODE	NJFET	PRESET	SPEAKER	

Notes

The generic parts such as NPN, PNP are unpackaged and are thus not intended for use on schematics where PCB manufacture is the end goal. This generic parts may of course be use as templates for specific device types.

The components have the appropriate properties for simulation where corresponding models exist.

ACTIVE.LIB

Description

This library contains Virtual Instruments and Active Components that can be used during and Interactive simulation.

Contents

DIODE.LIB

Description

This library contains diodes and bridge rectifiers from a number of manufacturers. All the parts in this library are packaged for PCB design and have appropriate simulator properties and/or models although some of the models are generic to a particular category of diode – e.g. small signal switching diode.

Contents

1N5933B
1N5934B
1N5935B
1N5936B
1N5937B
1N5938B
1N5939B
1N5940B
1N5941B
1N5942B
1N5943B
1N5944B
1N5945B
1N5946B
1N5947B
1N5948B
1N5949B
1N5950B
1N5951B
1N5952B
1N5953B
1N5954B
1N5955B
1N5956B
1N5985B
1N5986B
1N5987B
1N5988B
1N5989B
1N5990B
1N5991B
1N5992B
1N5993B
1N5994B
1N5995B
1N5996B
1N5997B
1N5998B
1N5999B
1N6000B
1N6001B
1N6002B
1N6003B
1N6004B
1N6005B
1N6006B
1N6007B
1N6008B
1N6009B
1N6010B
1N6011B
1N6012B
1N6013B
1N6014B
1N6015B
1N6016B
1N6017B
1N6018B
1N6019B
1N6020B
1N6021B
1N6022B
1N6023B
1N6024B
1N6025B
3EZ3V9D5
3EZ4V3D5
3EZ4V7D5
3EZ5V1D5
3EZ5V6D5
3EZ6V2D5
3EZ6V8D5
3EZ7V5D5
3EZ8V2D5
3EZ9V1D5
3EZ10D5
3EZ11D5
3EZ12D5
3EZ13D5
3EZ14D5
3EZ15D5
3EZ16D5
3EZ17D5
3EZ18D5
3EZ19D5
3EZ20D5
3EZ22D5
3EZ24D5
3EZ27D5
3EZ28D5
3EZ30D5
3EZ33D5
3EZ36D5
3EZ39D5
3EZ43D5
3EZ47D5
3EZ51D5
3EZ56D5
3EZ62D5
3EZ68D5
3EZ75D5
3EZ82D5
3EZ91D5
3EZ100D5
3EZ110D5
3EZ120D5
3EZ130D5
3EZ140D5
3EZ150D5
3EZ160D5
3EZ170D5
3EZ180D5
3EZ190D5
3EZ200D5
3EZ220D5
3EZ240D5
3EZ270D5
3EZ300D5
3EZ330D5
3EZ360D5
3EZ400D5
AA119
BAR28
BAX13
BAX16
BB212
BY127
BY206
BYT30
BYW51
BYW80
BYW98
BZG03C10
BZG03C12
BZG03C15
BZG03C18
BZG03C20
BZG03C24
BZG03C30
BZG03C33
BZG03C56
BZG03C100
BZG03C150
BZG03C180
BZT03C
BZT03C7V5
BZT03C8V2
BZT03C9V1
BZT03C10
BZT03C12
BZT03C15
BZT03C16
BZT03C18
BZT03C20
BZT03C22
BZT03C24
BZT03C27
BZT03C30
BZT03C33
BZT03C36
BZT03C39
BZT03C43
BZT03C47
BZT03C51
BZT03C56
BZT03C62
BZT03C68
BZT03C75
BZT03C82
BZT03C91
BZT03C100
BZT03C120
BZT03C130
BZT03C150
BZT03C160
BZT03C180
BZT03C200
BZT03C220
BZT03C270
BZV85C
BZV85C5V1
BZV85C5V6
BZV85C6V2
BZV85C6V8
BZV85C7V5
BZV85C8V2
BZV85C9V1
BZV85C10
BZV85C12
BZV85C13
BZV85C15
BZV85C16
BZV85C18
BZV85C20
BZV85C22
BZV85C24
BZV85C27
BZV85C30
BZV85C33
BZV85C36
BZV85C39
BZV85C43
BZV85C47
BZV85C51
BZV85C56
BZV85C62
BZV85C68
BZV85C75
BZV90C5V1
BZV90C5V6
BZV90C6V2
BZV90C6V8
BZV90C8V2
BZV90C10
BZV90C12
BZV90C15
BZV90C16
BZV90C18
BZV90C20
BZV90C27
BZX55C
BZX55C2V4RL
BZX55C2V7RL
BZX55C3V0RL
BZX55C3V3
BZX55C3V3RL
BZX55C3V6
BZX55C3V6RL
BZX55C3V9
BZX55C3V9RL
BZX55C4V3
BZX55C4V3RL
BZX55C4V7
BZX55C4V7RL
BZX55C5V1
BZX55C5V1RL
BZX55C5V6
BZX55C5V6RL
BZX55C6V2
BZX55C6V2RL
BZX55C6V8
BZX55C6V8RL
BZX55C7V5
BZX55C7V5RL
BZX55C8V2
BZX55C8V2RL
BZX55C9V1
BZX55C9V1RL
BZX55C10
BZX55C10RL
BZX55C11
BZX55C11RL
BZX55C12
BZX55C12RL
BZX55C13
BZX55C13RL
BZX55C15
BZX55C15RL
BZX55C16
BZX55C16RL
BZX55C18
BZX55C18RL
BZX55C20
BZX55C20RL
BZX55C22
BZX55C22RL
BZX55C24
BZX55C24RL
BZX55C27
BZX55C27RL
BZX55C30
BZX55C30RL
BZX55C33
BZX55C33RL
BZX55C36RL
BZX55C39RL
BZX55C43RL
BZX55C47RL
BZX55C51RL
BZX55C56RL
BZX55C62RL
BZX55C68RL
BZX55C75RL
BZX55C82RL
BZX55C91RL
BZX61C
BZX79C
BZX79C2V4
BZX79C2V4RL
BZX79C2V7
BZX79C2V7RL
BZX79C3V0
BZX79C3V0RL
BZX79C3V3
BZX79C3V3RL
BZX79C3V6
BZX79C3V6RL
BZX79C3V9
BZX79C3V9RL
BZX79C4V3
BZX79C4V3RL
BZX79C4V7
BZX79C4V7RL
BZX79C5V1
BZX79C5V1RL
BZX79C5V6
BZX79C5V6RL
BZX79C6V2
BZX79C6V2RL
BZX79C6V8
BZX79C6V8RL
BZX79C7V5
BZX79C7V5RL
BZX79C8V2
BZX79C8V2RL
BZX79C9V1
BZX79C9V1RL
BZX79C10
BZX79C10RL
BZX79C11
BZX79C11RL
BZX79C12
BZX79C12RL
BZX79C13
BZX79C13RL
BZX79C15
BZX79C15RL
BZX79C16
BZX79C16RL
BZX79C18
BZX79C18RL
BZX79C20
BZX79C20RL
BZX79C22
BZX79C22RL
BZX79C24
BZX79C24RL
BZX79C27
BZX79C27RL
BZX79C30
BZX79C30RL
BZX79C33
BZX79C33RL
BZX79C36
BZX79C36RL
BZX79C39
BZX79C39RL
BZX79C43RL

BZX79C47
BZX79C47RL
BZX79C51RL
BZX79C56
BZX79C56RL
BZX79C62RL
BZX79C68RL
BZX79C75
BZX79C75RL
BZX79C82RL
BZX79C91RL
BZX79C100RL
BZX79C110RL
BZX79C120RL
BZX79C130RL
BZX79C150RL
BZX79C160RL
BZX79C180RL
BZX79C200RL
BZX83C2V7RL
BZX83C3V0RL
BZX83C3V3RL
BZX83C3V6RL
BZX83C3V9RL
BZX83C4V3RL
BZX83C4V7RL
BZX83C5V1RL
BZX83C5V6RL
BZX83C6V2RL
BZX83C6V8RL
BZX83C7V5RL
BZX83C8V2RL
BZX83C9V1RL
BZX83C10RL
BZX83C11RL
BZX83C12RL
BZX83C13RL
BZX83C15RL
BZX83C16RL
BZX83C18RL
BZX83C20RL
BZX83C22RL
BZX83C24RL
BZX83C27RL
BZX83C30RL
BZX83C33RL
BZX84C2V4
BZX84C2V7
BZX84C3V0
BZX84C3V3
BZX84C3V9
BZX84C4V3
BZX84C4V7
BZX84C5V1
BZX84C5V6
BZX84C6V2
BZX84C6V8
BZX84C7V5
BZX84C8V2
BZX84C9V1
BZX84C10
BZX84C11
BZX84C12
BZX84C13
BZX84C15
BZX84C16
BZX84C18
BZX84C20
BZX84C22
BZX84C24
BZX84C27
BZX84C30
BZX84C33
BZX84C36
BZX84C47
BZX85C
BZX85C3V3
BZX85C3V3RL
BZX85C3V6
BZX85C3V6RL
BZX85C3V9
BZX85C3V9RL
BZX85C4V3
BZX85C4V3RL
BZX85C4V7
BZX85C4V7RL
BZX85C5V1
BZX85C5V1RL
BZX85C5V6
BZX85C5V6RL
BZX85C6V2
BZX85C6V2RL
BZX85C6V8
BZX85C6V8RL
BZX85C7V5
BZX85C7V5RL
BZX85C8V2
BZX85C8V2RL
BZX85C9V1
BZX85C9V1RL
BZX85C10
BZX85C10RL
BZX85C11
BZX85C11RL
BZX85C12
BZX85C12RL
BZX85C13
BZX85C13RL
BZX85C15
BZX85C15RL
BZX85C16
BZX85C16RL
BZX85C18
BZX85C18RL
BZX85C20
BZX85C20RL
BZX85C22
BZX85C22RL
BZX85C24
BZX85C24RL
BZX85C27
BZX85C27RL
BZX85C30
BZX85C30RL
BZX85C33
BZX85C33RL
BZX85C36RL
BZX85C39RL
BZX85C43RL
BZX85C47RL
BZX85C51RL
BZX85C56RL
BZX85C62RL
BZX85C68RL
BZX85C75RL
BZX85C82RL
BZX85C91RL
BZX85C100RL
BZX284C2V4
BZX284C2V7
BZX284C3V0
BZX284C3V3
BZX284C3V6
BZX284C3V9
BZX284C4V3
BZX284C4V7
BZX284C5V1
BZX284C5V6
BZX284C6V2
BZX284C6V8
BZX284C7V5
BZX284C8V2
BZX284C9V1
BZX284C10
BZX284C11
BZX284C12
BZX284C13
BZX284C15
BZX284C16
BZX284C18
BZX284C20
BZX284C22
BZX284C24
BZX284C27
BZX284C30
BZX284C33
BZY88C
GBPC802
GBPC804
GBPC808
MMBZ5226B
MMBZ5227B
MMBZ5228B
MMBZ5229B
MMBZ5230B
MMBZ5231B
MMBZ5232B
MMBZ5233B
MMBZ5234B
MMBZ5235B
MMBZ5236B
MMBZ5237B
MMBZ5238B
MMBZ5239B
MMBZ5240B
MMBZ5241B
MMBZ5242B
MMBZ5243B
MMBZ5244B
MMBZ5245B
MMBZ5246B
MMBZ5247B
MMBZ5248B
MMBZ5249B
MMBZ5250B
MMBZ5251B
MMBZ5252B
MMBZ5253B
MMBZ5254B
MMBZ5255B
MMBZ5256B
MMBZ5257B
MR751
MR754
MV2108
MZ5520B
MZ5521B
MZ5522B
MZ5523B
MZ5524B
MZ5525B
MZ5526B
MZ5527B
MZ5528B
MZ5529B
MZ5530B
MZD3V9
MZD4V3
MZD4V7
MZD5V1
MZD5V6
MZD6V2
MZD6V8
MZD7V5
MZD8V2
MZD9V1
MZD10
MZD11
MZD12
MZD13
MZD15
MZD16
MZD18
MZD20
MZD22
MZD24
MZD27
MZD30
MZD33
MZD36
MZD39
MZD43
MZD47
MZD51
MZD56
MZD62
MZD68
MZD75
MZD82
MZD91
MZD100
MZD110
MZD120
MZD130
MZD150
MZD160
MZD180
MZD200
MZP4728A
MZP4729A
MZP4730A
MZP4731A
MZP4732A
MZP4733A
MZP4734A
MZP4735A
MZP4736A
MZP4737A
MZP4738A
MZP4739A
MZP4740A
MZP4741A
MZP4742A
MZP4743A
MZP4744A
MZP4745A
MZP4746A
MZP4747A
MZP4748A
MZP4749A
MZP4750A
MZP4751A
MZP4752A
MZP4753A
MZP4754A
MZP4755A
MZP4756A
MZP4757A
MZP4758A
MZP4759A
MZP4760A
MZP4761A
MZP4762A
MZP4763A
MZP4764A
MZPY3V9RL
MZPY4V3RL
MZPY4V7RL
MZPY5V1RL
MZPY5V6RL
MZPY6V2RL
MZPY6V8RL
MZPY7V5RL
MZPY8V2RL
MZPY9V1RL
MZPY10RL
MZPY11RL
MZPY12RL
MZPY13RL
MZPY15RL
MZPY16RL
MZPY18RL
MZPY20RL
MZPY22RL
MZPY24RL
MZPY27RL
MZPY30RL
MZPY33RL
MZPY36RL
MZPY39RL
MZPY43RL
MZPY47RL
MZPY51RL
MZPY56RL
MZPY62RL
MZPY68RL
MZPY75RL
MZPY82RL
MZPY91RL
MZPY100RL
OA47
OA90
OA91
OA95
OA202
P600
PW01
PW06
S04
S005
SK202L5
SK204L5
UF4001
UF4002
UF4003
UF4004
UF5400
UF5401

UF5402
UF5404
UF5406
W01
W02
W04
W005
ZPD2V7RL
ZPD3V0RL
ZPD3V3RL
ZPD3V6RL
ZPD3V9RL
ZPD4V3RL
ZPD4V7RL
ZPD5V1RL
ZPD5V6RL
ZPD6V2RL
ZPD6V8RL
ZPD7V5RL
ZPD8V2RL
ZPD9V1RL
ZPD10RL
ZPD11RL
ZPD12RL
ZPD13RL
ZPD15RL
ZPD16RL
ZPD18RL
ZPD20RL
ZPD22RL
ZPD24RL
ZPD27RL
ZPD30RL
ZPD33RL

DISPLAY.LIB

Description

This library contains parts for a variety of LCD and LED displays.

Contents

7SEG-BCD
7SEG-COM-ANODE
7SEG-COM-CATHODE
7SEG-DIGITAL
7SEG-MPX2-CA
7SEG-MPX2-CC
7SEG-MPX4-CA
7SEG-MPX4-CC
7SEG-MPX6-CA
7SEG-MPX6-CC
AMPIRE128X64
HD44780
KS0108
LED-BARGRAPH-GRN
LED-BARGRAPH-RED
LGM12641BS1R
LM016L
LM017L
LM018L
LM020L
LM032L
LM041L
LM044L
LM3228
LM3229
LM3267
LM3283
LM3287
LM4228
LM4229
LM4265
LM4267
LM4283
LM4287
MATRIX-5X7-BLUE
MATRIX-5X7-GREEN
MATRIX-5X7-ORANGE
MATRIX-5X7-RED
MATRIX-8X8-BLUE
MATRIX-8X8-GREEN
MATRIX-8X8-ORANGE
MATRIX-8X8-RED
MDLS40466
MILFORD-2X16-BKP
MILFORD-2X20-BKP
MILFORD-2X40-BKP
MILFORD-4X20-BKP
PG12864F
PG24064F
PG128128A
PG160128A

BIPOLAR.LIB

Description

This library contains bipolar transistors from a number of manufacturers. All the parts in this library are packaged for PCB design and have appropriate simulator properties and/or models although some of the models are generic to a particular category of transistor – e.g. small signal low frequency.

Contents

FET.LIB

Description

This library contains field effect transistors (JFETs and MOSFETs) from a number of manufacturers. All the parts in this library are packaged for PCB design and have appropriate simulator properties and/or models although some of the models are generic to a particular category of transistor – e.g. small signal low frequency.

Contents

2N3819	BUK453	IRF730	TN0110	TP2510	VN2210
2N5459	BUK455	IRF740	TN0604	TP2520	VN2222
2N5460	BUK456	IRF820	TN0606	TP2522	VN2222LL
2N6660	BUZ10	IRF830	TN0610	TP2535	VN2224
2N6661	BUZ11	IRF840	TN0702	TP2540	VN2406L
2N7000	BUZ20	IRF9520	TN2106	TP2635	VN2410L
2N7002	BUZ21	IRF9530	TN2124	TP2640	VN3205
2N7008	BUZ31	IRFP250	TN2130	VN10	VN3515
2SJ48	DN2530	IRFP450	TN2501	VN10K	VN3515L
2SJ49	DN2535	J109	TN2504	VN66	VN4012L
2SJ50	DN2540	J112	TN2510	VN0104	VP0104
2SJ56	IRF130	LND150	TN2524	VN0106	VP0106
2SJ118	IRF330	LND250	TN2535	VN121	VP0109
2SJ162	IRF510	LP0701	TN2540	VN0300L	VP0550
2SK133	IRF520	MPF102	TN2640	VN0606L	VP1304
2SK134	IRF530	MTH40N06	TP0604	VN0808L	VP1306
2SK135	IRF540	SMP60N06	TP0606	VN1206L	VP1310
2SK176	IRF620	SNW60N10	TP0610T	VN1306	VP2106
2SK413	IRF630	TD9944	TP0620	VN1310	VP2110
2SK1058	IRF640	TN0104	TP2104	VN2106	VP2210
BF244	IRF720	TN0106	TP2502	VN2110	

REALTIME.LIB

Description

This library contains a series of primitives for constructing component models used in Interactive simulation.

Contents

RTDBREAK	RTDBREAK_16	RTDSTATE	RTIPROBE
RTDBREAK_1	RTDPROBE	RTDSTATE_1	RTSWITCH
RTDBREAK_2	RTDPROBE_1	RTDSTATE_2	RTVBREAK
RTDBREAK_3	RTDPROBE_2	RTDSTATE_3	RTVBREAK_1
RTDBREAK_4	RTDPROBE_3	RTDSTATE_4	RTVBREAK_2
RTDBREAK_8	RTDPROBE_4	RTIBREAK	RTVPROBE

ASIMMDLS.LIB

Description

This library contains analog primitives that can be used as ‘building blocks’ to construct analogue simulation models for use with the ProSPICE simulator.

Content

ACCCS
ACCVS
ADC
AVCCS
AVCVS
CAPACITOR
CCCS
CCCS2
CCR
CCR2
CCVS
CCVS2
CSOURCE
CSWITCH
CSWITCH2
DAC
DELAY
DIODE
IEXP
INDUCTOR
IPULSE
IPWLIN
ISFFM
ISINE
LOSSYLINE
MULTIPLIER
NJFET
NMESFET
NMOSFET
NMOSFET3
NPN
PJFET
PMESFET
PMOSFET
PMOSFET3
PNP
RESISTOR
SUMMER
URCLINE
VCCS
VCR
VCVS
VEXP
VPULSE
VPWLIN
VSFFM
VSINE
VSOURCE
VSWITCH

DSIMMDLS.LIB

Description

This library contains Digital primitives that can be used to create custom digital simulation models.

Content

ADC_8	COUNTER_12	FUSE_3	MEMORY_13_8	OR_5.DM
ADC_12	COUNTER_14	FUSE_4	MEMORY_14_8	OR_6.DM
ADC_16	DAC_8	FUSE_8	MEMORY_15_8	OR_7
AND_2	DAC_12	GENERATOR	MEMORY_16_8	OR_8
AND_2.DM	DAC_16	INVERTER	NAND_2	OR_10
AND_3	DECODER_2_4	JK	NAND_2.DM	OR_12
AND_4	DECODER_3_8	JKFF	NAND_3	OR_14
AND_5	DECODER_4_7	LATCH_3	NAND_4	OR_16
AND_7	DECODER_4_10	LATCH_4	NAND_5	PULLDOWN
AND_8	DECODER_4_16	LATCH_6	NAND_8	PULLUP
AORB_1	DECODER_5_8	LATCH_7	NAND_12	PULSE
AORB_4	DEGLITCH	LATCH_8	NAND_13	SELECTOR_1
AORB_5	DELAY_1	MATRIX_16_64.4	NOR_2	SELECTOR_2
BISTABLE	DELAY_4	MATRIX_16_64.8	NOR_2.DM	SELECTOR_3
BOOL_3	DELAY_12	MATRIX_16_64.8A	NOR_3	SELECTOR_4
BOOL_4	DELAY_14	MATRIX_16_64.8B	NOR_3.DM	SHIFTREG_4
BOOL_5	DIODE-DSIM	MATRIX_16_64.B8	NOR_4	SHIFTREG_5
BOOL_6	DSWITCH	MATRIX_20_64.4	NOR_4.DM	SHIFTREG_8
BOOL_7	DTFF	MATRIX_20_64.B8	NOR_5	SHIFTREG_10
BOOL_8	ENCODER_8_3	MATRIX_20_80.4	NOR_6	SHIFTREG_16
BUFFER	ENCODER_10_4	MATRIX_22_120	NOR_7	TRIBUFFER
BUFFER_4	FSEL_2	MATRIX_22_122	OR_2	TRIBUFFER.DM
BUFFER_8	FSEL_4	MATRIX_22_132	OR_2.DM	XNOR_8
COMPARATOR_4	FUNCTION_2_2	MATRIX_22_132.B	OR_3	XOR_2
COUNTER_3	FUNCTION_4_4	MATRIX_29_188	OR_3.DM	XOR_9
COUNTER_4	FUNCTION_4_8	MCELL	OR_4	
COUNTER_8	FUSE_1	MEMORY_4_4	OR_4.DM	
COUNTER_10	FUSE_2	MEMORY_12_8	OR_5	

VALVES.LIB

Description

This library contains both specific and generic symbols for thermionic valves. The parts are not packaged for PCB since we have been unable to locate a reliable source of mechanical data, but most of the specific types are linked to SPICE models.

Contents

5AR4	6DJ8	12AX7	ECC83	EL84
5U4GB	6L6GC	12BH7	ECC88	GZ34
5V3A	6V6GTA	DIODE	ECF82	KT88
5V4GA	12AT7	ECC81	EF86	PENTODE
5Y3GT	12AU7	ECC82	EL34	TRIODE

Notes

We have chosen to draw dual valve types as single element parts because of the difficulties that arise with common heaters and in some cases cathode pins. Circuit simulations may fail if unused parts of the valves are not connected to ground.

We have not provided models for the valve heaters.

74STD.LIB

Description

This library contains standard TTL parts from the 74 series. All the parts are packaged for through hole PCB layout and most have corresponding simulator models. De Morgan (negative logic) and IEC versions are provided where appropriate.

Contents

7400
7400.DM
7400.IEC
7401
7401.DM
7401.IEC
7402
7402.DM
7402.IEC
7403
7403.IEC
7404
7404.DM
7404.IEC
7405
7405.DM
7405.IEC
7406
7406.DM
7406.IEC
7407
7407.DM
7407.IEC
7408
7408.DM
7408.IEC
7409
7409.DM
7409.IEC
7410
7410.DM
7410.IEC
7412
7412.DM
7412.IEC
7413
7413.DM
7413.IEC
7414
7414.DM
7414.IEC
7416
7416.DM
7416.IEC
7417
7417.DM
7417.IEC
7420
7420.DM
7420.IEC
7422
7422.DM
7422.IEC
7425
7425.DM
7426
7426.DM
7426.IEC
7427
7427.DM
7427.IEC
7430
7430.DM
7430.IEC
7432
7432.DM
7432.IEC
7433
7433.DM
7433.IEC
7437
7437.DM
7437.IEC
7438
7438.IEC
7439
7439.DM
7439.IEC
7440
7440.DM
7440.IEC
7442
7442.IEC
7445
7445.IEC
7446
7446.IEC
7447
7447.IEC
7448
7448.IEC
7450
7451
7451.IEC
7454
7470
7470.IEC
7472
7472.IEC
7473
7473.IEC
7474
7474.IEC
7475
7475.IEC
7476
7476.IEC
7482
7483
7485
7485.IEC
7486
7486.IEC
7490
7491
7492
7493
7495
7496
7497
74100
74107
74107.IEC
74109
74109.IEC
74111
74111.IEC
74116
74121
74122
74122.IEC
74123
74123.IEC
74125
74125.DM
74125.IEC
74126
74126.DM
74126.IEC
74128
74128.DM
74128.IEC
74132
74132.DM
74132.IEC
74136
74136.IEC
74141
74145
74147
74147.IEC
74148
74148.IEC
74150
74151
74151.IEC
74153
74153.IEC
74154
74154.IEC
74155
74155.IEC
74156
74156.IEC
74157
74157.IEC
74159
74160
74160.IEC
74161
74161.IEC
74162.IEC
74163
74163.IEC
74164.IEC
74165
74165.IEC
74166
74166.IEC
74167
74170
74173
74173.IEC
74174
74174.IEC
74175
74175.IEC
74176
74177
74178
74179
74180
74181
74181.IEC
74182
74182.IEC
74184
74185
74190
74190.IEC
74191
74191.IEC
74192
74192.IEC
74193
74193.IEC
74194
74194.IEC
74195
74195.IEC
74196
74196.IEC
74197
74197.IEC
74198
74199
74221
74221.IEC
74247
74248
74249
74251
74251.IEC
74259
74259.IEC
74273
74273.IEC
74276
74276.IEC
74279
74279.IEC
74283
74283.IEC
74284
74284.IEC
74285
74285.IEC
74290
74298
74298.IEC
74365
74365.IEC
74366
74366.IEC
74367
74367.IEC
74368
74368.IEC
74376
74376.IEC
74390
74390.IEC
74393
74393.IEC
74425
74425.DM
74490
74490.IEC

74AS.LIB

Description

This library contains standard TTL parts from the 74 series. All the parts are packaged for through hole PCB layout and most have corresponding simulator models. De Morgan (negative logic) and IEC versions are provided where appropriate.

Contents

74AS00
74AS00.DM
74AS00.IEC
74AS02
74AS02.DM
74AS02.IEC
74AS04
74AS04.DM
74AS04.IEC
74AS08
74AS08.DM
74AS08.IEC
74AS10
74AS10.DM
74AS10.IEC
74AS11
74AS11.DM
74AS11.IEC
74AS20
74AS20.DM
74AS20.IEC
74AS21
74AS21.DM
74AS21.IEC
74AS27
74AS27.DM
74AS27.IEC
74AS30
74AS30.DM
74AS30.IEC
74AS32
74AS32.DM
74AS32.IEC
74AS34
74AS34.DM
74AS34.IEC
74AS74
74AS74.IEC
74AS95
74AS109
74AS109.IEC
74AS136
74AS136.IEC
74AS137
74AS137.IEC
74AS138
74AS138.IEC
74AS139
74AS139.IEC
74AS151
74AS151.IEC
74AS153
74AS153.IEC
74AS157
74AS157.IEC
74AS158
74AS158.IEC
74AS160
74AS160.IEC
74AS161
74AS161.IEC
74AS162.IEC
74AS163
74AS163.IEC
74AS168
74AS168.IEC
74AS169
74AS169.IEC
74AS174
74AS174.IEC
74AS175
74AS175.IEC
74AS181
74AS181.IEC
74AS182
74AS182.IEC
74AS194
74AS194.IEC
74AS195
74AS195.IEC
74AS240
74AS240.IEC
74AS241
74AS241.IEC
74AS242
74AS242.IEC
74AS243
74AS243.IEC
74AS244
74AS244.IEC
74AS245
74AS245.IEC
74AS251
74AS251.IEC
74AS257
74AS257.IEC
74AS258
74AS258.IEC
74AS280
74AS280.IEC
74AS298
74AS298.IEC
74AS299
74AS299.IEC
74AS323
74AS323.IEC
74AS352
74AS352.IEC
74AS353
74AS353.IEC
74AS373
74AS373.IEC
74AS374
74AS374.IEC
74AS573
74AS573.IEC
74AS574
74AS574.IEC
74AS575
74AS576
74AS577
74AS580
74AS638
74AS638.IEC
74AS639
74AS639.IEC
74AS640
74AS640.IEC
74AS641
74AS641.IEC
74AS642
74AS642.IEC
74AS643
74AS643.IEC
74AS644
74AS644.IEC
74AS645
74AS645.IEC

74LS.LIB

Description

This library contains LS TTL parts from the 74 series. All the parts are packaged for through hole PCB layout and most have corresponding simulator models. De Morgan (negative logic) and IEC versions are provided where appropriate.

Contents

74LS355.IEC
74LS356
74LS356.IEC
74LS357
74LS357.IEC
74LS365
74LS365.IEC
74LS366
74LS366.IEC
74LS367
74LS367.IEC
74LS368
74LS368.IEC
74LS373
74LS373.IEC
74LS374
74LS374.IEC
74LS375
74LS375.IEC
74LS377
74LS377.IEC
74LS378
74LS379
74LS381
74LS381.IEC
74LS382
74LS382.IEC
74LS386
74LS386.IEC
74LS390
74LS390.IEC
74LS393
74LS393.IEC
74LS395
74LS398
74LS399
74LS423
74LS423.IEC
74LS447
74LS490
74LS490.IEC
74LS540
74LS540.IEC
74LS541
74LS541.IEC
74LS590
74LS590.IEC
74LS591
74LS591.IEC
74LS592
74LS592.IEC
74LS629
74LS629.IEC
74LS638
74LS638.IEC
74LS639
74LS639.IEC
74LS640
74LS640.IEC
74LS641
74LS641.IEC
74LS642
74LS642.IEC
74LS643
74LS643.IEC
74LS644
74LS644.IEC
74LS645
74LS645.IEC
74LS670
74LS670.IEC
74LS682
74LS682.IEC
74LS683
74LS683.IEC
74LS684
74LS684.IEC
74LS685
74LS685.IEC

74ALS.LIB

Description

This library contains ALS TTL parts from the 74 series. All the parts are packaged for through hole PCB layout, but there are no simulator models. De Morgan (negative logic) and IEC versions are provided where appropriate.

Contents

74ALS00	74ALS15.IEC	74ALS40.DM	74ALS158.IEC	74ALS242.IEC	74ALS540
74ALS00.DM	74ALS20	74ALS40.IEC	74ALS160	74ALS243	74ALS540.IEC
74ALS00.IEC	74ALS20.DM	74ALS74	74ALS160.IEC	74ALS243.IEC	74ALS541
74ALS01	74ALS20.IEC	74ALS74.IEC	74ALS161	74ALS244	74ALS541.IEC
74ALS01.DM	74ALS21	74ALS86	74ALS161.IEC	74ALS244.IEC	74ALS573
74ALS01.IEC	74ALS21.DM	74ALS86.IEC	74ALS162.IEC	74ALS245	74ALS573.IEC
74ALS02	74ALS21.IEC	74ALS109	74ALS163	74ALS245.IEC	74ALS574
74ALS02.DM	74ALS22	74ALS109.IEC	74ALS163.IEC	74ALS257	74ALS574.IEC
74ALS02.IEC	74ALS22.DM	74ALS112	74ALS164.IEC	74ALS257.IEC	74ALS575
74ALS03	74ALS22.IEC	74ALS112.IEC	74ALS165	74ALS258	74ALS576
74ALS03.IEC	74ALS28	74ALS113	74ALS165.IEC	74ALS258.IEC	74ALS577
74ALS04	74ALS28.DM	74ALS113.IEC	74ALS166	74ALS259	74ALS580
74ALS04.DM	74ALS28.IEC	74ALS114	74ALS166.IEC	74ALS259.IEC	74ALS638
74ALS04.IEC	74ALS30	74ALS114.IEC	74ALS168	74ALS273	74ALS638.IEC
74ALS05	74ALS30.DM	74ALS133	74ALS168.IEC	74ALS273.IEC	74ALS639
74ALS05.DM	74ALS30.IEC	74ALS133.DM	74ALS169	74ALS280	74ALS639.IEC
74ALS05.IEC	74ALS32	74ALS133.IEC	74ALS169.IEC	74ALS280.IEC	74ALS640
74ALS08	74ALS32.DM	74ALS136	74ALS174	74ALS299	74ALS640.IEC
74ALS08.DM	74ALS32.IEC	74ALS136.IEC	74ALS174.IEC	74ALS299.IEC	74ALS641
74ALS08.IEC	74ALS33	74ALS137	74ALS175	74ALS323	74ALS641.IEC
74ALS09	74ALS33.DM	74ALS137.IEC	74ALS175.IEC	74ALS323.IEC	74ALS642
74ALS09.DM	74ALS33.IEC	74ALS138	74ALS190	74ALS352	74ALS642.IEC
74ALS09.IEC	74ALS34	74ALS138.IEC	74ALS190.IEC	74ALS352.IEC	74ALS643
74ALS10	74ALS34.DM	74ALS139	74ALS191	74ALS353	74ALS643.IEC
74ALS10.DM	74ALS34.IEC	74ALS139.IEC	74ALS191.IEC	74ALS353.IEC	74ALS644
74ALS10.IEC	74ALS35	74ALS151	74ALS192	74ALS373	74ALS644.IEC
74ALS11	74ALS35.DM	74ALS151.IEC	74ALS192.IEC	74ALS373.IEC	74ALS645
74ALS11.DM	74ALS35.IEC	74ALS153	74ALS193	74ALS374	74ALS645.IEC
74ALS11.IEC	74ALS37	74ALS153.IEC	74ALS193.IEC	74ALS374.IEC	
74ALS12	74ALS37.DM	74ALS156	74ALS240	74ALS518	
74ALS12.DM	74ALS37.IEC	74ALS156.IEC	74ALS240.IEC	74ALS519	
74ALS12.IEC	74ALS38	74ALS157	74ALS241	74ALS520	
74ALS15	74ALS38.IEC	74ALS157.IEC	74ALS241.IEC	74ALS521	
74ALS15.DM	74ALS40	74ALS158	74ALS242	74ALS522	

74S.LIB

Description

This library contains Schottky TTL parts from the 74 series. All the parts are packaged for through hole PCB layout and most have corresponding simulator models. De Morgan (negative llogic) and IEC versions are provided where appropriate

Contents

74F.LIB

Description

This library contains FAST TTL parts from the 74 series. All the parts are packaged for through hole PCB layout but there are no simulator models. De Morgan (negative logic) and IEC versions are provided where appropriate.

Contents

74HC.LIB

Description

This library contains high speed CMOS parts from the 74 and 4000 series. All the parts are packaged for through hole PCB layout and most have simulator models. De Morgan (negative logic) and IEC versions are provided where appropriate.

Contents

74HC4060.IEC	74HC4072.DM	74HC4078.DM	74HC4514	74HC4520	74HC40102
74HC4066	74HC4072.IEC	74HC4078.IEC	74HC4514.IEC	74HC4520.IEC	74HC40103
74HC4066.IEC	74HC4075	74HC4094	74HC4515	74HC4538	74HC40105
74HC4067	74HC4075.DM	74HC4094.IEC	74HC4515.IEC	74HC4538.IEC	
74HC4067.IEC	74HC4075.IEC	74HC4511	74HC4518	74HC4543	
74HC4072	74HC4078	74HC4511.IEC	74HC4518.IEC	74HC4543.IEC	

74HCT.LIB

Description

This library contains high speed CMOS (TTL compatible) parts from the 74 and 4000 series. All the parts are packaged for through hole PCB layout and most have simulator models. De Morgan (negative logic) and IEC versions are provided where appropriate.

Contents

ANALOG.LIB

Description

This library contains miscellaneous but commonly used analog devices including regulators, amplifiers and data acquisition ICs. The data was taken from a number of sources. All the parts are packaged for PCB layout and a few have simulator models.

Contents

78L05	79L15	7905	DAC0808	LM3914	ULN2002A
78L08	79L24	7908	DG507	LM3915	ULN2003A
78L12	555	7912	HI-507	LM3916	ULN2004A
78L15	7555	7915	LM317L	LMC835	ZN426
78L24	7805	7924	LM337L	M145026	ZN427
78S40	7808	ADC0808	LM380	M145027	ZN428
79L05	7812	DAC0800	LM833N	NE555	ZN448
79L08	7815	DAC0801	LM837	NE565	
79L12	7824	DAC0802	LM1877	ULN2001A	

CAPACITORS.LIB

Description

This library contains a large number of commonly used capacitors. Data was collated from a several sources and all parts have simulation models attached to them.

Content

AUDIO1U
AUDIO1U5
AUDIO2U2
AUDIO4U7
AUDIO8U
AUDIO10U
AUDIO15U
AUDIO100N
AUDIO220N
AUDIO330N
AUDIO680N
AX22U50V
AX47U16V
AX100U25V
AX1000U16V
CERAMIC1N
CERAMIC1N5
CERAMIC1N8
CERAMIC1P8
CERAMIC2N2
CERAMIC2N7
CERAMIC3N3
CERAMIC3P3
CERAMIC4N7
CERAMIC4P7
CERAMIC5P6
CERAMIC6P8
CERAMIC8P2
CERAMIC10N
CERAMIC10P
CERAMIC12P
CERAMIC15P
CERAMIC18P
CERAMIC22N
CERAMIC22P
CERAMIC27P
CERAMIC33P
CERAMIC39P
CERAMIC47P
CERAMIC56P
CERAMIC68P
CERAMIC82P
CERAMIC100P
CERAMIC120P
CERAMIC150P
CERAMIC180P
CERAMIC220P
CERAMIC270P
CERAMIC330P
CERAMIC390P
CERAMIC470P
CERAMIC560P
CERAMIC680P
CERAMIC820P
CERARIC2P2
CERARIC2P7
CLASSX1-1N
CLASSX1-1U
CLASSX1-2N2
CLASSX1-3N3
CLASSX1-4N7
CLASSX1-10N
CLASSX1-22N
CLASSX1-47N
CLASSX2-1U
CLASSX2-10N
CLASSX2-22N
CLASSX2-33N
CLASSX2-47N
CLASSX2-100N
CLASSX2-220N
CLASSX2-330N
CLASSX2-470
CLASSX2-680
DISC10N50V
DISC22N50V
DISC47N16V
DISC47N50V
DISC100N16V
DISC100N50V
DISC220N16V
DISC220N25V
GENELECT1U63V
GENELECT2U250V
GENELECT2U263V
GENELECT3U350V
GENELECT4U716V
GENELECT4U750V
GENELECT6U850V
GENELECT10U16V
GENELECT10U35V
GENELECT10U50V
GENELECT22U16V
GENELECT22U35V
GENELECT22U63V
GENELECT33U16V
GENELECT33U25V
GENELECT33U35V
GENELECT47U6V3
GENELECT47U16V
GENELECT47U35V
GENELECT100N63
GENELECT100U6V3
GENELECT100U16V
GENELECT100U25V
GENELECT220N63
GENELECT220U10V
GENELECT470N63V
HITEMP1U100V
HITEMP2U2100V
HITEMP4U7100V
HITEMP10U50V
HITEMP10U100V
HITEMP22U50V
HITEMP22U100V
HITEMP47U50V
HITEMP47U100V
HITEMP100U25V
HITEMP100U50V
HITEMP100U100V
HITEMP220U50V
HITEMP470U25V
HITEMP470U50V
HITEMP470U100V
HITEMP1000U16V
HITEMP1000U25V
HITEMP1000U63V
HITEMP2200U25V
HITEMP2200U50V
HITEMPAX1U100V
HITEMPAX2U2100V
HITEMPAX10U25V
HITEMPAX10U63V
HITEMPAX22U63V
HITEMPAX47U16V
HITEMPAX47U45V
HITEMPAX47U63V
HITEMPAX100U10V
HITEMPAX100U35V
HITEMPAX100U63V
HITEMPAX220U16V
HITEMPAX220U35V
HITEMPAX470U10V
HITEMPAX470U16V
HITEMPAX470U25V
HITEMPAX470U63V
HITEMPAX1000U10V
HITEMPAX1000U16V
HITEMPAX1000U35V
HITEMPAX1000U63V
HITEMPAX2200U35V
HITEMPAX2200U50V
HITEMPAX2200U63V
HITEMPAX4700U35V
MICA1N
MICA5P
MICA10P
MICA47P
MICA100P
MICA120P
MICA150P
MICA180P
MICA470P
MICA680P
MINELECT1U63V
MINELECT2U263V
MINELECT4U763V
MINELECT10U16V
MINELECT10U35
MINELECT10U50V
MINELECT22U16V
MINELECT22U35V
MINELECT47U16V
MINELECT100N63V
MINELECT100U10V
MINELECT100U16V
MINELECT220U10V
MINELECT470N63V
MONORES1N
MONORES2N2
MONORES3N3
MONORES4N7
MONORES6N8
MONORES10N

MONORES10P
MONORES22N
MONORES22P
MONORES33N
MONORES47N
MONORES47P
MONORES68N
MONORES100N
MONORES100P
MONORES220N
MONORES220P
MONORES470N
MONORES470P
MYLAR1N1
MYLAR2N2
MYLAR4N7
MYLAR10N
MYLAR22N
MYLAR47N
MYLAR100N
MYLAR220N
NP1U5100V
NP2U2100V
NP3U3100V
NP10U50V
NP22U100V
NP47U100V
NP100U100V
NP220U100V
PCELEC1U100V
PCELECT1U450V
PCELECT2U2100V
PCELECT4U763V
PCELECT4U7100V
PCELECT4U7450V
PCELECT10U50V
PCELECT10U100V
PCELECT22U25V
PCELECT22U50V
PCELECT22U63V
PCELECT22U100V
PCELECT33U35V
PCELECT33U63V
PCELECT47U25V
PCELECT47U50V
PCELECT47U63V
PCELECT47U100V
PCELECT47U450V
PCELECT100U10V
PCELECT100U25V
PCELECT100U35V
PCELECT100U63V
PCELECT100U100V
PCELECT220U16V
PCELECT220U35V
PCELECT220U63V
PCELECT220U100V
PCELECT330U50V
PCELECT470U16V
PCELECT470U35V
PCELECT470U63V
PCELECT470U100V
PCELECT1000U16V
PCELECT1000U35V
PCELECT1000U63V
PCELECT1000U100V
PCELECT2200U16V
PCELECT2200U35V
PCELECT2200U63V
PCELECT4700U16V
PCELECT4700U35V
PCELECT10000U16V
POLYESTER1U
POLYESTER2U2
POLYESTER10N
POLYESTER15N
POLYESTER22N
POLYESTER33M
POLYESTER47N
POLYESTER68N
POLYESTER100N
POLYESTER150N
POLYESTER220
POLYESTER330N
POLYESTER470N
POLYFILM1N
POLYFILM2N2
POLYFILM4N7
POLYFILM10N
POLYFILM22N
POLYFILM47N
POLYFILM100N
POLYFILM220N
POLYFILM470N
POLYLAYER1U
POLYLAYER2N2
POLYLAYER3N3
POLYLAYER4N7
POLYLAYER6N8
POLYLAYER8N2
POLYLAYER10N
POLYLAYER22N
POLYLAYER33N
POLYLAYER47N
POLYLAYER68N
POLYLAYER100N
POLYLAYER120N
POLYLAYER150N
POLYLAYER180N
POLYLAYER220N
POLYLAYER270N
POLYLAYER330N
POLYLAYER390N
POLYLAYER470N
POLYLAYER560N
POLYLAYER680N
POLYPROPYLENE1U
POLYPROPYLENE100N
POLYPROPYLENE220N
POLYPROPYLENE470N
POLYSTYRENE2N2
POLYSTYRENE4N7
POLYSTYRENE22P
POLYSTYRENE68P
POLYSTYRENE100P
POLYSTYRENE150P
POLYSTYRENE220P
POLYSTYRENE680P
TANTALUM1U35V
TANTALUM1U535V
TANTALUM2U235V
TANTALUM3U335V
TANTALUM4U716V
TANTALUM4U735V
TANTALUM10U16V
TANTALUM10U25V
TANTALUM10U35V
TANTALUM22U16V
TANTALUM22U25
TANTALUM33U10
TANTALUM47U10
TANTALUM47U16V
TANTALUM100N35V
TANTALUM100U10V
TANTALUM220N35V
TANTALUM330N35V
TANTALUM470N35V

CMOS.LIB

Description

This library contains CMOS parts from the 4000 series. All the parts are packaged for through hole PCB layout and most have simulator models. De Morgan (negative logic) and IEC versions are provided where appropriate.

Contents

4000
4000.IEC
4001
4001.DM
4001.IEC
4002
4002.DM
4002.IEC
4006
4006.IEC
4007
4008
4008.IEC
4009
4009.DM
4010
4010.DM
4011
4011.DM
4011.IEC
4012
4012.DM
4012.IEC
4013
4013.IEC
4014
4014.IEC
4015
4015.IEC
4016
4016.IEC
4017
4017.IEC
4018
4018.IEC
4019
4019.IEC
4020
4020.IEC
4021
4021.IEC
4022
4022.IEC
4023
4023.DM
4023.IEC
4024
4024.IEC
4025
4025.DM
4025.IEC
4026
4027
4027.IEC
4028
4028.IEC
4029
4029.IEC
4030
4030.IEC
4033
4034
4035
4035.IEC
4040
4040.IEC
4041
4041.DM
4041.IEC
4042
4042.IEC
4043
4043.IEC
4044
4046
4046.IEC
4047
4047.IEC
4048
4049
4049.DM
4049.IEC
4050
4050.DM
4050.IEC
4051
4051.IEC
4052.IEC
4053
4053.IEC
4054
4055
4056
4059
4059.IEC
4060
4060.IEC
4063
4066
4066.IEC
4067
4067.IEC
4068
4068.DM
4068.IEC
4069
4069.IEC
4070
4070.IEC
4071
4071.DM
4071.IEC
4072
4072.DM
4072.IEC
4073
4073.DM
4073.IEC
4075
4075.DM
4075.IEC
4076
4076.IEC
4077
4077.IEC
4078
4078.DM
4078.IEC
4081
4081.DM
4081.IEC
4082
4082.DM
4082.IEC
4085
4085.IEC
4089
4093
4093.DM
4093.IEC
4094
4094.IEC
4095
4096
4098
4099
4502
4502.IEC
4503
4508
4508.IEC
4510
4510.IEC
4511
4511.IEC
4512
4512.IEC
4513
4514
4514.IEC
4515
4515.IEC
4516
4516.IEC
4518
4518.IEC
4520
4520.IEC
4522
4522.IEC
4526
4526.IEC
4528
4528.IEC
4529
4530
4532
4532.IEC
4537
4538
4538.IEC
4539
4539.IEC
4541
4541.IEC
4543
4543.IEC
4555
4555.IEC
4556
4556.IEC
4559
4560
4584
4584.DM
4585
4585.IEC
40102
40103
40104
40105
40106
40106.DM
40106.IEC
40160
40160.IEC
40161
40161.IEC
40162
40162.IEC
40163
40163.IEC
40174
40174.IEC
40175
40175.IEC
40192
40192.IEC
40193
40193.IEC
40194
40194.IEC

Description

This library contains parts from the ECL 10000 series. The parts are packaged for through hole PCB layout but there are no simulator models.

Contents

10113	10130	10137	10159	10166	10178
10115	10131	10138	10161	10173	10181
10116	10133	10141	10162	10174	10186A
10124	10135	10145	10164	10175	
10125	10136	10158	10165	10176	

I2CMEM.LIB

Description

This library contains a number of I2C memory parts from Arizona Microchip, Fairchild and SG Micro Electronics. Each part is fully simulatable within the VSM simulation architecture.

Contents

24AA00	24C02B	24LC16B	FM24C32	M24C04	NM24C08F
24AA01	24C02C	24LC32A	FM24C32F	M24C08	NM24C09
24AA02	24C04A	24LC64	FM24C64	M24C16	NM24C09F
24AA04	24C08B	24LC128	FM24C64F	M24C32	ST24E16
24AA08	24C16B	24LC256	FM24C128	M24C64	ST24W01
24AA16	24C32A	FM24C02	FM24C128	M24128B	ST24W02
24AA32A	24FC128	FM24C02F	F	M24256B	ST24W04
24AA64	24FC256	FM24C03	FM24C256	M24512	ST24W08
24AA128	24LC00	FM24C03F	FM24C256	NM24C04	ST24W16
24AA256	24LC01B	FM24C16	F	NM24C04F	
24C00	24LC02B	FM24C16F	FM34W02	NM24C05	
24C01B	24LC04B	FM24C17	M24C01	NM24C05F	
24C01C	24LC08B	FM24C17F	M24C02	NM24C08	

MEMORY.LIB

Description

This library contains a number of miscellaneous but useful memory devices.

Content

1_ ORD : 1+TP
1_ ORD : 1-TP
1_ ORD : HP
1_ ORD : HP_F
1_ ORD : LP
1_ ORD : LP_F
1_ ORD : POLY 1
1_ ORD : POLY 2
1_ ORD : POLY 3
2_ ORD : BP
2_ ORD : HP
2_ ORD : LP
2_ ORD : NOTCH
2_ ORD : POLY
CTRL : ADVANCE
CTRL : DELAY
CTRL : P
CTRL : P D
CTRL : P I
CTRL : P I D
NL : AMP DZ
NL : AMP PL
NL : AMP SAT
NL : SW HYST
NL : SWITCH
NL : SWITCH DZ
OP : ADD
OP : DELAY
OP : DIFFERENTIATE
OP : DIVIDE
OP : GAIN
OP : INTEGRATE
OP : MULTIPLY
OP : SUBTRACT
PROC : BROIDA
PROC : PURE DLY
PROC : ZIEGLER
PZ : P REAL
PZ : P+Z REAL
PZ : Z REAL
SCH : C(P)
SCH : E(P)
SCH : F(P)
SCH : G(P)
SCH : H(P)
SCH : R(P)
SCH : S(P)
SCH : T(P)

MEMORY.LIB

Description

This library contains commonly used memory ICs from a number of manufacturers. All the parts are packaged for through hole PCB design but there are no simulator models.

Contents

27C64	2149	4016	5513	6665	27512
27C128	2164	4164	5514	8128	27513
27C256	2600	4256	5516	8264	41256
2015	2620	4257	5517	8266	48416
2016	2716	4264	5564	8281	50256
2018	2732	4416	5565	8416	50257
2019	2764	4564	6116	8417	57256
2063	2816	4864	6164	8418	58064
2064	2817	5113	6256	8464	62256
2114	2864	5164	6257	27128	
2148	3764	5165	6264	27256	

MICRO.LIB

Description

This library contains commonly used microprocessor ICs from a number of manufacturers. All the parts are packaged for PCB design but there are no simulator models.

Some of the parts are provided in both separately pinned and bus pinned versions.

Contents

80C31	87C524	AT90S2323	P87C51FC	PIC16C65B
80C31.BUS	87C528	AT90S2333	P87C51FC.BUS	PIC16C66
80C32	87C552	AT90S2343	P87C51RA+	PIC16C67
80C32.BUS	87C652	AT90S4433	P87C51RA+.BUS	PIC16C72A
80C51	87C654	AT90S4434	P87C51RB+	PIC16C73B
80C51.BUS	8039	AT90S8515	P87C51RB+.BUS	PIC16C74B
80C52	8039.BUS	AT90S8535	P87C51RC+	PIC16C76
80C52.BUS	8049	ATMEGA103	P87C51RC+.BUS	PIC16C77
80C54	8049.BUS	ATTINY10	P87C51RD+	PIC16F83
80C54.BUS	8255A	ATTINY11	P87C51RD+.BUS	PIC16F84A
80C58	68000	ATTINY12	PC-BUS	PIC16F870
80C58.BUS	68000.BUS	ATTINY15	PIC12C508A	PIC16F871
80C451	68008	AY-3-1015	PIC12C509A	PIC16F873
80C453	68008.BUS	ICM7170	PIC12C671	PIC16F874
80C528	68010	MC68HC11A8.EXP	PIC12C672	PIC16F876
80C575	68010.BUS	MC68HC11A8.SC	PIC12CE518	PIC16F877
80C652	AT-BUS	MC68HC11D3	PIC12CE519	PIC18C242
80CL31	AT89C51	MC68HC11E9.EXP	PIC12CE673	PIC18C252
80CL410	AT89C51.BUS	MC68HC11E9.SC	PIC12CE674	PIC18C442
83C504	AT89C51RB2	MC68HC24	PIC16C54	PIC18C452
83C508	AT89C51RB2.BUS	MC6850	PIC16C54.BUS	PIC18C601
83C576	AT89C51RC2	NM232CD	PIC16C55	PIC18C601.BUS
83C654	AT89C51RC2.BUS	P8XC592	PIC16C55.BUS	PIC18C658
83C748	AT89C51RD2	P8XCE598	PIC16C56	PIC18C801.BUS
83C749	AT89C51RD2.BUS	P83C524	PIC16C56.BUS	PIC18C858
83C750	AT89C52	P83CE558	PIC16C57	Z80
83C751	AT89C52.BUS	P83CE559	PIC16C57.BUS	Z80 CPU
83C752	AT89C55	P87C51FA	PIC16C61	Z80 CTC
83CL781	AT89C55.BUS	P87C51FA.BUS	PIC16C62B	Z80 DART
83L51FA	AT90S1200	P87C51FB	PIC16C63A	Z80 DMA
83L51FB	AT90S2313	P87C51FB.BUS	PIC16C64A	Z80 PIO

OPAMP.LIB

Description

This library contains Operational Amplifiers from a number of manufacturers. All the parts are packaged for through hole PCB layout and are linked to appropriate simulator macro models.

Contents

709	CA3130	LF355	LM6364	OP-77GP	TL062
741	CA3140	LF411	LT1013CN8	OP-90GP	TL064
747	CA3160	LF412CN	LT1014CN	OP-200GP	TL071
748	CA3240	LF441	LT1028	OP09	TL072
1458	CA3260	LF442	LT1077CN8	OP11	TL074
1558	CA5130	LF444	MC3403	OP14	TL075
3403	CA5160	LF13741	MC33078	OP215	TL081
4136	CA5260	LM124	MC33171P	OP220	TL082
4156	EL2020	LM224	MC33172P	OP221	TL084
4227G	EL2030CN	LM301	MC33174P	OP400	TL085
4559	EL2120CN	LM308	NE531	OPA121KP	TLC272
AD642	EL2232	LM324	NE5532	OPA404KP	TLC274
AD644	LF137	LM348	NE5534	OPA606KP	TLE2027C
AD647	LF147	LM358N	OP-07CN	OPA2107AP	TLE2037C
AD648JN	LF347	LM392	OP-27G	OPA2111KP	UA709
AD711JN	LF351	LM833N	OP-37GN	PM-1008GP	UA741
AD712JN	LF353N	LM837	OP-47G	TL061	UA747C

Notes

This library was created for PROTEUS 3.0 and many of the devices in it are now also available from the manufacturer specific libraries – NATOA, TEXOAC and LINTEC. The manufacturer specific libraries may have more accurate (manufacturer designed) SPICE models, whereas the parts in this library are modeled using generic macro model files.

PLD.LIB

Description

This library contains Programmable Logic Devices. The parts are packaged for through hole PCB design and contain appropriate property definitions for simulation.

The packaging and timing data was obtained from the relevant AMD data-book.

Contents

AM16L8	AM16R6	AM16V8	AM20R8	AM20V8	AM29M16
AM16R4	AM16R8	AM20R4	AM20RA10	AM22V10	AM29MA16

RESISTORS.LIB

Description

This library contains a large number of commonly used resistor parts. All parts are simulatable within the Proteus VSM simulation architecture.

Content

3WATT0R1
3WATT0R22
3WATT0R27
3WATT0R33
3WATT0R47
3WATT0R68
3WATT1K
3WATT1K5
3WATT1R
3WATT2K2
3WATT2R2
3WATT2R7
3WATT3K3
3WATT3R3
3WATT3R9
3WATT4K7
3WATT4R7
3WATT6R8
3WATT8R2
3WATT10K
3WATT10R
3WATT15R
3WATT18R
3WATT22R
3WATT27R
3WATT33R
3WATT47R
3WATT68R
3WATT100R
3WATT150R
3WATT180R
3WATT220R
3WATT330R
3WATT470R
7WATT0R1
7WATT0R22
7WATT0R27
7WATT0R33
7WATT0R47
7WATT0R68
7WATT1K
7WATT1R
7WATT2R2
7WATT3R9
7WATT4R7
7WATT5R6
7WATT6R8
7WATT8R2
7WATT10R
7WATT15R
7WATT22R
7WATT47R
7WATT100R
7WATT220R
7WATT470R
10WATT0R1
10WATT0R22
10WATT0R47
10WATT0R56
10WATT1K
10WATT1R
10WATT2R2
10WATT3R3
10WATT3R9
10WATT4K7
10WATT4R7
10WATT5R6
10WATT6R8
10WATT8R2
10WATT10R
10WATT22R
10WATT33R
10WATT47R
10WATT51R
10WATT68R
10WATT100R
10WATT470R
HIGHVOLTAGE1M
HIGHVOLTAGE2M2
HIGHVOLTAGE4M7
HIGHVOLTAGE10M
HIGHVOLTAGE15M
HIGHVOLTAGE22M
HIGHVOLTAGE33M
HIGHVOLTAGE47M
METALFILM1K
METALFILM1K5
METALFILM1M
METALFILM2K2
METALFILM4K7
METALFILM5K6
METALFILM10K
METALFILM12K
METALFILM22K
METALFILM39K
METALFILM47K
METALFILM68R
METALFILM100K
METALFILM100R
METALFILM120K
METALFILM120R
METALFILM150R
METALFILM180R
METALFILM220K
METALFILM220R
METALFILM270R
METALFILM330R
METALFILM390R
METALFILM470K
METALFILM470R
METALFILM680R
MINRES1K
MINRES1K1
MINRES1K2
MINRES1K3
MINRES1K5
MINRES1K6
MINRES1K8
MINRES1M
MINRES1M2
MINRES1M5
MINRES1M8
MINRES1R
MINRES1R2
MINRES1R5
MINRES1R8
MINRES2K
MINRES2K2
MINRES2K4
MINRES2M2
MINRES2M7
MINRES2R2
MINRES2R7
MINRES3K
MINRES3K3
MINRES3K6
MINRES3K9
MINRES3M3
MINRES3M9
MINRES3R3
MINRES3R9
MINRES4K3
MINRES4K7
MINRES4M7
MINRES4R7
MINRES5K1
MINRES5K6
MINRES5M6
MINRES5R6
MINRES6K2
MINRES6K8
MINRES6M8
MINRES6R8
MINRES7K5
MINRES8K2
MINRES8M2
MINRES8R2
MINRES9K1
MINRES10K
MINRES10M
MINRES10R
MINRES11
MINRES11R
MINRES12
MINRES12R
MINRES13
MINRES13R
MINRES15K
MINRES15R
MINRES16K
MINRES16R
MINRES18K
MINRES18R
MINRES20K
MINRES20R
MINRES22K
MINRES22R
MINRES24K
MINRES24R
MINRES27K
MINRES27R
MINRES30K
MINRES30R
MINRES33K

MINRES33R
MINRES36K
MINRES36R
MINRES39K
MINRES39R
MINRES43K
MINRES43R
MINRES47K
MINRES47R
MINRES51K
MINRES51R
MINRES56K
MINRES56R
MINRES62K
MINRES62R
MINRES68K
MINRES68R
MINRES75K
MINRES75R
MINRES82K
MINRES82R
MINRES91K
MINRES91R
MINRES100K
MINRES100R
MINRES110K
MINRES110R
MINRES120K
MINRES120R
MINRES130K
MINRES130R
MINRES150K
MINRES150R
MINRES160K
MINRES160R
MINRES180K
MINRES180R
MINRES200K
MINRES200R
MINRES220K
MINRES220R
MINRES240K
MINRES240R
MINRES270K
MINRES270R
MINRES300K
MINRES300R
MINRES330K
MINRES330R
MINRES360K
MINRES360R
MINRES390K
MINRES390R
MINRES430K
MINRES430R
MINRES470K
MINRES470R
MINRES510K
MINRES510R
MINRES560K
MINRES560R
MINRES620K
MINRES620R
MINRES680K
MINRES680R
MINRES750K
MINRES750R
MINRES820K
MINRES820R
MINRES910K
MINRES910R

FAIRCHLD.LIB

Description

This library contains discrete components from Fairchild Semiconductor Inc. All the parts are packaged for PCB layout and are linked to the manufacturer's SPICE models in FAIRCHLD.SML.

Contents

2N2608
2N2609
2N3370
2N3390
2N3391A
2N3392
2N3393
2N3415
2N3416
2N3417
2N3458
2N3459
2N3684
2N3685
2N3686
2N3687
2N3702
2N3703
2N3821
2N3822
2N3823
2N3824
2N3859A
2N3903
2N3904
2N3905
2N3906
2N3921
2N3922
2N3954
2N3954A
2N3955
2N3955A
2N3956
2N3957
2N3958
2N3966
2N3967
2N3970
2N3971
2N3972
2N4084
2N4091
2N4092
2N4093
2N4117
2N4117A
2N4118
2N4118A
2N4119
2N4119A
2N4123
2N4124
2N4125
2N4126
2N4220
2N4220A
2N4221
2N4221A
2N4222
2N4222A
2N4223
2N4338
2N4339
2N4340
2N4341
2N4381
2N4391
2N4392
2N4393
2N4400
2N4401
2N4402
2N4403
2N4410
2N4416
2N4416A
2N4856
2N4856A
2N4857
2N4857A
2N4858
2N4858A
2N4859
2N4859A
2N4860
2N4860A
2N4861
2N4861A
2N5018
2N5019
2N5020
2N5021
2N5045
2N5046
2N5047
2N5078
2N5086
2N5087
2N5088
2N5089
2N5103
2N5105
2N5114
2N5115
2N5116
2N5172
2N5196
2N5197
2N5199
2N5210
2N5358
2N5366
2N5397
2N5398
2N5400
2N5401
2N5432
2N5433
2N5434
2N5452
2N5454
2N5515
2N5516
2N5517
2N5518
2N5519
2N5520
2N5521
2N5522
2N5523
2N5524
2N5545
2N5550
2N5551
2N5556
2N5557
2N5558
2N5565
2N5566
2N5769
2N5771
2N5772
2N5830
2N5902
2N5904
2N5905
2N5906
2N5907
2N5909
2N5911
2N5912
2N6483
2N6484
2N6485
BC548C
J201
J401
J402
J403
J404
J405
J406
J410
J411
J412
MPS3702
MPS3703
MPS6513
MPS6514
MPS6515
MPS6518
MPS6521
MPS6523
MPS6531
MPS6534
MPS6562
MPS8098
MPSA05
MPSA06
MPSA10
MPSA18
MPSA20
MPSA42
MPSA43
MPSA55
MPSA56
MPSA92
MPSA93
MPSH10
MPSL01
MPSL51
PN930
PN2222
PN2222A
PN2369
PN2369A
PN2484
PN2907
PN2907A
PN3565
PN3638
PN3638A
PN3640
PN3642
PN3643
PN3644
PN3645
PN3646
PN4121
PN4122
PN4141
PN4143
PN4249
PN4250
PN4250A
PN4258
PN4275
PN4355
PN4356
PN4917
PN5134
PN5138
ST5771-1
TIS93
TIS97
TIS98
TN2219A
TN2905A
U308
U309
U310
U401
U402
U403
U404
U405
U406
U440
U441

LINTEC.LIB

Description

This library contains operational amplifiers from Linear Technology Inc. All the parts are packaged for PCB design and are linked to the manufacturer's SPICE models in LINTEC.SML.

Contents

LF155	LT1001A	LT1055S8	LT1194	LT1229	LTC1052
LF155A	LT1006	LT1056	LT1195	LT1230	LTC1053
LF156	LT1006A	LT1056A	LT1200	LT1251	OP05
LF156A	LT1006S8	LT1056S8	LT1201	LT1252	OP05A
LF355	LT1007	LT1057	LT1202	LT1253	OP05C
LF355A	LT1007A	LT1057A	LT1206	LT1254	OP05E
LF356	LT1008	LT1058	LT1208	LT1256	OP07
LF356A	LT1012A	LT1058A	LT1209	LT1354	OP07A
LF412	LT1012D	LT1078	LT1211	LT1355	OP07C
LF412A	LT1012S8	LT1078A	LT1212	LT1356	OP07E
LM10C	LT1013	LT1079	LT1213	LT1357	OP15A
LM101A	LT1013A	LT1079A	LT1214	LT1358	OP15B
LM107	LT1013D	LT1097	LT1215	LT1359	OP15C
LM108	LT1014	LT1101	LT1216	LT1360	OP16A
LM108A	LT1014A	LT1115	LT1217	LT1361	OP16B
LM118	LT1014AD	LT1122	LT1220	LT1362	OP16C
LM301A	LT1022	LT1178	LT1221	LT1363	OP27A
LM307	LT1022A	LT1179	LT1222	LT1364	OP27C
LM308	LT1028	LT1187	LT1223	LT1365	OP37A
LM308A	LT1028A	LT1189	LT1224	LTC1047	OP37C
LM318	LT1037	LT1190	LT1225	LTC1049	OP215A
LT118A	LT1037A	LT1191	LT1226	LTC1050	OP215C
LT318A	LT1055	LT1192	LT1227	LTC1050A	
LT1001	LT1055A	LT1193	LT1228	LTC1051	

NATDAC.LIB

Description

This library contains data acquisition devices from National Semiconductor Inc. The parts are packaged for PCB layout but there are no simulator models.

Contents

ADC12L030
ADC12L032
ADC12L034
ADC12L038
ADC080X
ADC0808
ADC0809
ADC0811
ADC0816
ADC0817
ADC0819
ADC0820
ADC0831
ADC0832
ADC0833
ADC0834
ADC0838
ADC0841
ADC0844
ADC0848
ADC0851
ADC0852
ADC0854
ADC0858
ADC1001
ADC1005
ADC1031
ADC1034
ADC1038
ADC1061
ADC1205
ADC1225
ADC1241
ADC1242
ADC1251
ADC08031
ADC08032
ADC08034
ADC08038
ADC08061
ADC08062
ADC08131
ADC08134
ADC08138
ADC08161
ADC08231
ADC08234
ADC08238
ADC10061
ADC10062
ADC10064
ADC10154
ADC10158
ADC10461
ADC10462
ADC10464
ADC10662
ADC10664
ADC10731
ADC10732
ADC10734
ADC10738
ADC10831
ADC10832
ADC10834
ADC10838
ADC12030
ADC12032
ADC12034
ADC12038
ADC12062
ADC12130
ADC12132
ADC12138
ADC12441
ADC12662
ADC16071
ADC16471
DAC102X
DAC122X
DAC0800
DAC0801
DAC0802
DAC0806
DAC0807
DAC0808
DAC0830
DAC0831
DAC0832
DAC0854
DAC0890
DAC1006
DAC1007
DAC1008
DAC1054
DAC1208
DAC1209
DAC1210
DAC1218
DAC1219
DAC1230
DAC1231
DAC1232
LF198
LF298
LF398
LF13006
LF13007
LH0070
LH0071
LM12L454
LM12L458
LM34
LM35
LM45
LM50
LM113
LM129
LM131
LM134
LM135
LM136-2V5
LM136-5V0
LM169
LM185
LM185-1V2
LM185-2V5
LM199
LM231
LM234
LM235
LM236-2V5
LM236-5V0
LM285
LM285-1V2
LM285-2V5
LM299
LM313
LM329
LM331
LM334
LM335
LM336-2V5
LM336-5V0
LM368-2V5
LM368-5V0
LM368-10V
LM369
LM385
LM385-1V2
LM385-2V5
LM399
LM3999
LM4040
LM4041
LM4431
LM9140
LM12434
LM12458
LMF40
LMF60
LMF90
LMF100
LMF380
MF4
MF5
MF6
MF8
MF10

NATOA.LIB

Description

This library contains operational amplifiers from National Semiconductor. All the parts are packaged for PCB layout and most are linked to the manufacturer's SPICE models in NATOA.SML.

Contents

LF155	LM258	LM6181	LMC6001A	LMC6082B	LMC6681A
LF156	LM318	LM6218	LMC6001B	LMC6084A	LMC6681B
LF157	LM324	LM6261	LMC6022	LMC6084B	LMC6762A
LF351	LM358	LM6262	LMC6024	LMC6462A	LMC6762B
LF353	LM741	LM6264	LMC6032	LMC6462B	LMC6772A
LF411	LM2902	LM6265	LMC6034	LMC6464A	LMC6772B
LF412	LM2904	LM6361	LMC6041A	LMC6464B	LMC7101A
LF441A	LM6118	LM6362	LMC6041B	LMC6482A	LMC7101B
LF441B	LM6121	LM6364	LMC6042A	LMC6484A	LMC7111A
LF442A	LM6132A	LM6365	LMC6042B	LMC6492A	LMC7111B
LF442B	LM6132B	LM7121	LMC6044A	LMC6492B	LMC7211A
LF444A	LM6142A	LM7131A	LMC6044B	LMC6494A	LMC7211B
LF444B	LM6142B	LM7131B	LMC6061A	LMC6494B	LMC7221A
LF451	LM6152A	LM7171A	LMC6061B	LMC6572A	LMC7221B
LF453	LM6152B	LM7171B	LMC6062A	LMC6572B	LPC660A
LM111	LM6161	LM13600	LMC6062B	LMC6574A	LPC660B
LM118	LM6162	LM13700	LMC6064A	LMC6574B	LPC661A
LM124	LM6164	LMC660A	LMC6064B	LMC6582A	LPC661B
LM158	LM6165	LMC660B	LMC6081A	LMC6582B	LPC662A
LM218	LM6171A	LMC662A	LMC6081B	LMC6584A	LPC662B
LM224	LM6171B	LMC662B	LMC6082A	LMC6584B	

TECCOR.LIB

Description

This library contains SCRs and TRIACs from Teccor inc. All the parts are packaged for PCB design and are linked to the manufacturer's SPICE models in TECCOR.SML.

Contents

2N5063
2N5064
2N6564
2N6565
EC103A
EC103A1
EC103A2
EC103A3
EC103B
EC103B1
EC103B2
EC103B3
EC103C
EC103C1
EC103C2
EC103C3
EC103D
EC103D1
EC103D2
EC103D3
EC103E
EC103E1
EC103E2
EC103E3
EC103M
EC103M1
EC103M2
EC103M3
EC113A
EC113A3
EC113B
EC113B3
EC113C
EC113C3
EC113D
EC113D3
EC113E
EC113E3
EC113M
EC113M3
L201E3
L201E5
L201E6
L201E8
L401E3
L401E5
L401E6
L401E8
L601E3
L601E5
L601E6
L601E8
L2002L8
L2004L3
L2004L5
L2004L6
L2004L8
L2006L5
L2006L6
L2006L8
L2008L6
L4004L3
L4004L5
L4004L6
L4004L8
L4006L5
L4006L6
L4006L8
L4008L6
L4008L8
L6004L3
L6004L5
L6004L6
L6004L8
L6006L5
L6006L6
L6006L8
L6008L6
Q201E3
Q201E4
Q401E3
Q401E4
Q501E3
Q501E4
Q601E3
Q601E4
Q2004L3
Q2004L4
Q2006L4
Q2008L4
Q2010L5
Q2015L5
Q2025R5
Q4004L3
Q4004L4
Q4006L4
Q4008L4
Q4010L5
Q4015L5
Q4025R5
Q5004L3
Q5004L4
Q5006L4
Q5008L4
Q5010L5
Q5015L5
Q5025R5
Q6004L3
Q6004L4
Q6006L5
Q6008L5
Q6010L5
Q6015L5
Q6025R5
Q7004L4
Q7006L5
Q7008L5
Q7010L5
Q7015L5
Q7025R5
Q8004L4
Q8006L5
Q8008L5
Q8010L5
Q8015L5
Q8025R5
S051E
S101E
S201E
S401E
S0503FS11
S0503FS21
S0503FS31
S0503LS1
S0503LS2
S0503LS3
S0504F1
S0506FS21
S0506FS31
S0506L
S0506LS2
S0506LS3
S0508FS21
S0508FS31
S0508L
S0508LS2
S0508LS3
S0510FS21
S0510FS31
S0510L
S0510LS2
S0510LS3
S0510R
S0512R
S0515L
S0516R
S0520L
S0525L
S0535J
S0540R
S0555R
S0565J
S0570W
S601E
S1003FS11
S1003FS21
S1003FS31
S1003LS1
S1003LS2
S1003LS3
S1004F1
S1006FS21
S1006FS31
S1006L
S1006LS2
S1006LS3
S1008FS21
S1008FS31
S1008L
S1008LS2
S1008LS3
S1010FS21
S1010FS31
S1010L
S1010LS2
S1010LS3
S1010R
S1012R
S1015L
S1016R
S1020L
S1025L
S1035J
S1040R
S1055R
S1065J
S1070W
S2003FS11
S2003FS21
S2003FS31
S2003LS1
S2003LS2
S2003LS3
S2004F1
S2006FS21
S2006FS31
S2006L
S2006LS2
S2006LS3
S2008FS21
S2008FS31
S2008L
S2008LS2
S2008LS3
S2010FS21
S2010FS31
S2010L
S2010LS2
S2010LS3
S2010R
S2012R
S2015L
S2016R
S2020L
S2025L
S2035J
S2040R
S2055R
S2065J
S2070W
S4003FS11
S4003FS21
S4003FS31
S4003LS1
S4003LS2
S4003LS3
S4004F1
S4006FS21
S4006FS31
S4006L
S4006LS2
S4006LS3
S4008FS21
S4008FS31
S4008L
S4008LS2
S4008LS3
S4010FS21
S4010FS31
S4010L
S4010LS2
S4010LS3
S4010R
S4012R
S4015L
S4016R
S4020L
S4025L
S4035J
S4040R
S4055R
S4065J
S4070W
S6003FS11
S6003FS21
S6003FS31
S6003LS1
S6003LS2
S6003LS3
S6004F1

S6006FS21
S6006FS31
S6006L
S6006LS2
S6006LS3
S6008FS21
S6008FS31
S6008L
S6008LS2
S6008LS3
S6010FS21
S6010FS31
S6010L
S6010LS2
S6010LS3
S6010R
S6012R
S6015L
S6016R
S6020L
S6025L
S6035J
S6040R
S6055R
S6065J
S6070W
S8006L
S8008L
S8010L
S8010R
S8012R
S8015L
S8016R
S8020L
S8025L
S8035J
S8040R
S8055R
S8065J
S8070W
T106A1
T106B1
T106C1
T106D1
T106E1
T106F1
T106M1
T107A1
T107B1
T107C1
T107D1
T107E1
T107F1
T107M1
TCR222
TCR223
TCR224
TCR226
TCR228

TEXOAC.LIB

Description

This library contains operational amplifiers and comparators from Texas Instruments. All the parts are packaged for PCB design and where the models are available, are linked to the manufacturer's SPICE models in the files TEX101.SML, TEX301.SML, TEX401.SML, TEX3_1.SML and TEX5_1.SML.

Contents

A741
LF347
LF351
LF353
LF411
LF412
LM111
LM118
LM124
LM139
LM148
LM158
LM193
LM211
LM218
LM224
LM239
LM248
LM258
LM293
LM306
LM311
LM318
LM324
LM324X2
LM339
LM339X2
LM348
LM358
LM393
LM2900
LM2901
LM2902
LM2903
LM2904
LM3302
LM3900
LP111
LP211
LP239
LP311
LP339
LP2901
LT1013
MC1458
MC1558
MC3303
MC3403
NE5532
NE5534
OP07
RC4136
RC4558
RM4136
RM4558
RV4136
RV4558
SE5534
TL022
TL031
TL032
TL034
TL051
TL052
TL054
TL061
TL062
TL064
TL064X2
TL070
TL071
TL072
TL074
TL074X2
TL081
TL082
TL084
TL084X2
TL393
TL712
TL714
TL2828
TL2829
TLC25L2
TLC25L2C
TLC25L4
TLC25L4C
TLC25M2
TLC25M2C
TLC25M4
TLC25M4C
TLC27L2
TLC27L4
TLC27M2
TLC27M4
TLC139
TLC251
TLC251H
TLC251L
TLC251M
TLC252
TLC252C
TLC254
TLC254C
TLC271
TLC271H
TLC271M
TLC272
TLC274
TLC274X2
TLC277
TLC279
TLC339
TLC352
TLC354
TLC371
TLC372
TLC374
TLC393
TLC1078
TLC1079
TLC2201
TLC2202
TLC2252
TLC2254
TLC2262
TLC2264
TLC2272
TLC2274
TLC2652
TLC2654
TLC2801
TLC2810
TLC2872
TLC3702
TLC3704
TLE2021
TLE2022
TLE2024
TLE2027
TLE2037
TLE2061
TLE2062
TLE2064
TLE2071
TLE2072
TLE2074
TLE2081
TLE2082
TLE2084
TLE2141
TLE2142
TLE2144
TLE2161
TLE2227
TLE2237
TLE2301
TLE2425
TLE2426
TLE2662
TLE2682
TLV1393
TLV2252
TLV2254
TLV2262
TLV2264
TLV2322
TLV2322I
TLV2324
TLV2324I
TLV2332
TLV2332I
TLV2334
TLV2334I
TLV2341
TLV2341H
TLV2341L
TLV2341M
TLV2342
TLV2342I
TLV2344
TLV2344I
TLV2352
TLV2352I
TLV2354
TLV2354I
TLV2362
TLV2393

ZETEX.LIB

Description

This library contains discrete components from Zetex PLC. All the parts are packaged for PCB design and are linked to the manufacturer's SPICE models in ZETEX.SML.

Contents

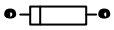
2N2222A
2N6715
2N6727
BAL74
BAL99
BAR74
BAR99
BAS16
BAS19
BAS20
BAS21
BAV70
BAV74
BAV99
BAW56
BBY31
BBY40
BC107BP
BC108BP
BC109BP
BC177AP
BC178AP
BC182BP
BC183BP
BC212AP
BC237BP
BC238BP
BC239BP
BC307AP
BC308AP
BC337AP
BC338AP
BC413BP
BC414BP
BC415AP
BC416AP
BC546BP
BC547BP
BC548BP
BC549BP
BC550BP
BC556AP
BC557AP
BC558AP
BC559AP
BC560AP
BC807-16
BC808-16
BC846B
BC847B
BC848B
BC849B
BC850B
BC856A
BC857A
BC858A
BC859A
BC860A
BCV72
BCW29
BCW32
BCW60C
BCW61A
BCW65A
BCW66F
BCW67A
BCW68F
BCW69
BCW72
BCW89
BCX70J
BCX71G
BFQ31
BFS17
FCX458
FCX558
FMMD914
FMMD2835
FMMD2836
FMMD2837
FMMD2838
FMMD6050
FMMD6100
FMMD7000
FMMT489
FMMT491A
FMMT549
FMMT589
FMMT591A
FMMT597
FMMT617
FMMT618
FMMT619
FMMT624
FMMT625
FMMT717
FMMT718
FMMT720
FMMT722
FMMT723
FMMT918
FMMT5179
FMMTA20
FMMTA70
FMMTH10
FMMV105G
FMMV109
FMMV2101
FMMV2102
FMMV2103
FMMV2104
FMMV2105
FMMV2106
FMMV2107
FMMV2108
FMMV2109
FMMV3102
FZT649
FZT651
FZT657
FZT658
FZT688B
FZT689B
FZT690B
FZT692B
FZT694B
FZT696B
FZT749
FZT751
FZT757
FZT758
FZT788B
FZT789A
FZT790A
FZT792A
HD2A
HD3A
HD4A
MPS5179
MPSA20
MPSH10
ZC820A
ZC821A
ZC822A
ZC823A
ZC824A
ZC825A
ZC826A
ZC830A
ZC831A
ZC832A
ZC833A
ZC834A
ZC835A
ZC836A
ZDX1F
ZDX2F
ZDX5
ZDX6
ZTX107
ZTX107B
ZTX108
ZTX108B
ZTX109
ZTX109B
ZTX212
ZTX212A
ZTX213
ZTX213A
ZTX214
ZTX214A
ZTX237
ZTX237B
ZTX238
ZTX238B
ZTX239
ZTX239B
ZTX320
ZTX321
ZTX325
ZTX327
ZTX360
ZTX450
ZTX454
ZTX455
ZTX458
ZTX549
ZTX550
ZTX558
ZTX649
ZTX650
ZTX651
ZTX653
ZTX657
ZTX658
ZTX688B
ZTX689B
ZTX690B
ZTX692B
ZTX694B
ZTX696B
ZTX749
ZTX750
ZTX751
ZTX753
ZTX757
ZTX758
ZTX788A
ZTX788B
ZTX789A
ZTX790A
ZTX792A
ZTX795A
ZTX796A
ZTX849
ZTX851
ZTX869
ZTX948
ZTX949
ZTX951
ZTX953
ZTX955
ZTX956
ZTX957
ZTX958
ZTX968
ZTX1047A
ZTX1048A
ZTX1049A
ZTX1051A
ZTX1053A
ZTX1055A
ZTX1056A

Description

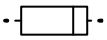
This library contains through hole footprints for all types of component.

It is vital to check that all pad and drill hole sizes are suitable for your own manufacturing process before raising orders for large numbers of boards.

Diodes



DO7
DO14
DO35
DO41
DO194
DOP6
DO15
DO27



CASE17
SOD57

TO92-D3
TO92-D2
TO92-D1

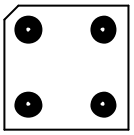
DO220

DO220A

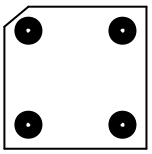
Bridge Rectifier Packs

Bridge1

Bridge2



Bridge3

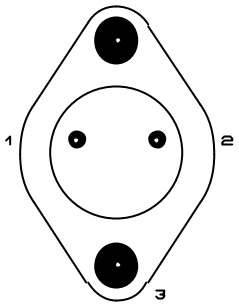


Bridge4

Bridge5

Transistors

Note that all transistor packs now use pin numbers – this allows several differently pinned devices in ISIS to use the same footprint.

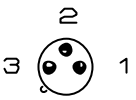


TO3
TO3-F
TO3A-F
TO66

Eline
Eline-2
Eline-50
Eline-75
Eline-80
Eline-100
Eline-KA

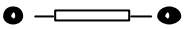
TO3P
TO126
TO202
TO218
TO220
TO220-F
TO251
TO262

TO92
TO92-2
TO92/5
TO92/18
TO92-50
TO92-75
TO92-80
TO92-100
TO92-A
TO92-B
TO92-C
TO92-D
TO92-E
TO92-H
TO92-J
TO92-K
TO92-M
TO92-P
TO98
TO226



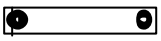
TO1
TO5
TO5-2
TO5-8
TO46-2
TO46-3
TO46-4
TO71
TO72
TO72A

Passives

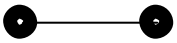


RES40
RES50
RES60
RES90
RES120
RES180

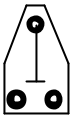
CAP10
CAP15
CAP20
CAP30
CAP40



ELEC-AX45
ELEC-AX50
ELEC-AX60
ELEC-AX80
ELEC-AX120
ELEC-AX130
ELEC-AX180



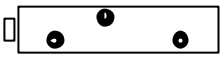
LINK20
LINK30
LINK40



PRE-HMIN

PRE-VMIN

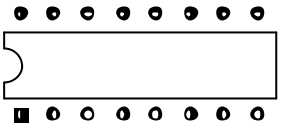
PRE-SQ1
PRE-SQ2
PRE-SQ3
PRE-SQ4



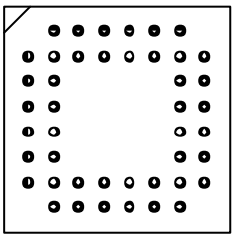
PRE-MT0.75
PRE-MT1.25

ELEC-RAD10
ELEC-RAD13
ELEC-RAD20
ELEC-RAD30

IC Packs

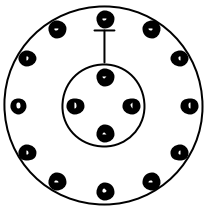


DIL06
DIL08
DIL10
DIL14
DIL16
DIL18
DIL20
DIL22
DIL24
DIL24/28
DIL24NAR
DIL28
DIL30
DIL40
DIL48
DIL56
DIL64
DIL72

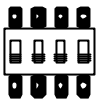


LCC-SKT28
LCC-SKT32
LCC-SKT44
LCC-SKT52
LCC-SKT68
LCC-SKT84

Miscellaneous

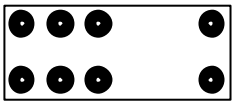


SW-ROT

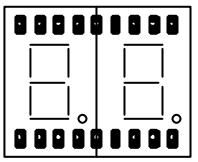


SW-DIP4
SW-DIP6
SW-DIP8

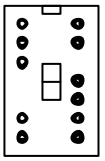
SW-PUSH1
SW-PUSH2



RELAY-1
RELAY-2
RELAY-3
RELAY-4



DD7SEG-56



7SEG 3-C
7SEG 3+A

SMTDISC.LIB

Description

This library contains footprints for discrete surface mount devices – resistors, capacitors, diodes and transistors. All footprints in this library are designs for reflow soldering.

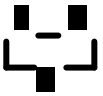
It is vital to check that pad sizes and spacing are suitable for your own manufacturing process before raising orders for large numbers of boards.

MELF
MINIMELF
DSM
DMM
LL34
LL41
MLL34
MLL41

DOS214
SMB
SMC
SOD80
SOD106
SOD110
60A2

FMD
IMD
UMB
SOT143

Diodes



SOT23-D1
SOT23-D2
SOT23-D3
SOT23-D4
SOT23-D5
SOT23-D6
SOT23-D7
SOT23-D8
SOT23-N
UMD-D1
UMD-D2
UMD-D3
UMD-D4
UMD-D5
UMD-D6
UMD-D7
UMD-D8
UMD-DN
SC59
SC59-D1
SC59-D5
SC59-D6
SC59-N
EM3-
EM-D5
EM-D6
EM-D8
EM3-N

SOT89-D6
SOT89-D7
SOT89-D8
SOT89-N

SOT223-D1

Transistors

SOT23
TO236
EM3
UMT
SC59

SOT89

SOT223-3
SOT223-4

DPAK
TO252

TO263

Tantalum Capacitors

TANT-A
TANT-B
TANT-C
TANT-D
TANT-E
TANT-H

All the transistor packs have pin numbers (rather than names) so that devices in ISIS with different pinnings – especially Bipolars and FETs can use the same footprint.

Tantalum capacitors are often available in rectangular packs with leads folded under the end. We have adopted the names used by Hitachi in their TMC range. The following table gives equivalents for other manufacturers.

Typical Size(mm)	Hitachi TMC	AVX TAJ	Siemens B45196	Kemet T491	Natpan ECST	NEC NR	Spraque 293D	Mial
3.2x1.6	A	A	A	Y	A	A	-	A
3.5x2.8	B	B	B	B	X	B2	B	B
4.8x2.6	H	-	-	-	B	B	-	-
5.8x4.5	D	-	-	-	-	-	E	-
6.0x3.2	C	C	C	C	C	C	C	C
7.3x4.3	E	D	D	D	D	D	D	D/D0

Chip Capacitors and Resistors

0402
0603
0805
1206
1210
1812
2010
2220
2225
2512
2824
3827

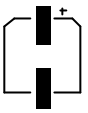
Only chip outlines are supplied. Other packages that are used may be copied from the diode packages and renamed with pins numbered '1' and '2' instead of 'K' and 'A'. The following chip sizes are supplied: 0402, 0603, 0805, 1206, 1210, 1812, 2010, 2220, 2225, 2512, 2824, 3827. These packs are also used extensively in ceramic chip capacitors. The packs are drawn with the pad width approximately the same width as the chip. The landing zone (length of pad exposed past the ends of chip) is not excessive, to allow close packing of components. This may make the pads inappropriate for tall chip components or placement machines that are not of very fine tolerance. If a few more thou are needed on the ends of the chip for more reliable construction with your board manufacturer, it is acceptable to increase the pad sizes without moving the centres. Note also that the maximum track size between the pads and packing density are limited. In general allow at least 15 thou clearance around the pads, but again it is best to check with your board manufacturer.

XTAL

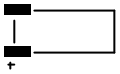
(EAIJ-1009B & EIA-418A)

Most surface mount crystals share the same footprint (EAIJ-1009B or EIA-418A) so this is supplied with the name XTAL.

Electrolytic Capacitors



ELECT-3
ELECT-4
ELECT-5
ELECT-6.3
ELECT-8x6
ELECT-8x10
ELECT-10x10

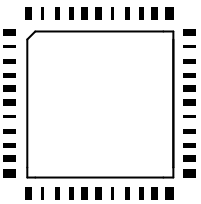


ELECT-A6
ELECT-B6
ELECT-C6
ELECT-D6
ELECT-D8
ELECT-D10
ELECT-D13
ELECT-H15
ELECT-H20
ELECT-H25

Two electrolytic capacitor families are supplied. No data on equivalent packages was available at the time this library was drawn up. Nichicon electrolytics have a vertical can on a square base. The ranges UP, UR, UX, UT, UZ, WX are supported. Packages supplied are : ELECT-3, ELECT-4, ELECT-5, ELECT-6.3, ELECT-8X8, ELECT-8X10, ELECT-10X10.

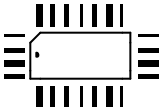
Nippon Chemi-Con are rectangular with the connections at one end. The outlines supplied are : ELECT-A6, ELECT-B6, ELECT-C6, ELECT-D6, ELECT-D8, ELECT-D10, ELECT-D13, ELECT-H15, ELECT-H20, ELECT-H25.

LCC – Leaded Chip Carrier

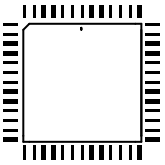


LCC16
LCC20
LCC24
LCC28
LCC44
LCC52
LCC68
LCC84
LCC100
LCC124
LCC156

PLCC – Plastic Leaded Chip Carrier



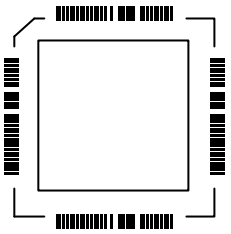
PLCC18/R
PLCC22/R
PLCC28/R
PLCC32/R



PLCC20
PLCC28
PLCC44
PLCC52
PLCC68
PLCC84
PLCC100
PLCC124

IPC-SM-782 Land pattern Standardr recommended pad sizes. N.B. Mitsubishi recommend smaller pads (50x30 thou) but have the same distances between the inner edges.

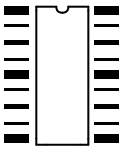
CLCC – Ceramic Leaded Chip Carrier



CLCC52
CLCC68
CLCC100
CLCC132

JEDEC standard parts. Pins on 25 or 50 thou and chip mount plate always 0.95 in. sq.

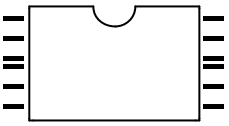
SOP – Small Outline Packs



SOP6
SOP8
SOP10
SOP12
SOP14
SOP16
SOP18
SOP20
SOP22
SOP24
SOP26
SOP28
SOP30
SOP32
SOP36
SOP40
SOP42

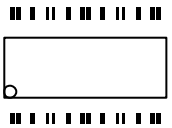
Naming scheme represents number of pins in pack, then row spacing in inches.

TSOP – Thin Small Outline Packs



TSOP6X14
TSOP6X16
TSOP6X18
TSOP6X20
TSOP8
TSOP8X14
TSOP8X16
TSOP8X18
TSOP8X20
TSOP10X14
TSOP10X16
TSOP10X18
TSOP10X20
TSOP12X14
TSOP12X16
TSOP12X18
TSOP12X20

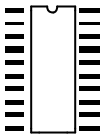
VSOP – Very Small Outline Pack



VSOP48
VSOP56

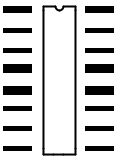
These two packs are used by IDT and are part of the JEDEC standard. They have pins on a 25 thou pitch. IDT calls them Shrink SOPs, but this could cause confusion with the SSO parts in this library.

SOJ – Small Outline J-lead



SOJ14/300
SOJ14/350
SOJ14/400
SOJ14/450
SOJ16/300
SOJ16/350
SOJ16/400
SOJ16/450
SOJ18/300
SOJ18/350
SOJ18/400
SOJ18/450
SOJ20/300
SOJ20/350
SOJ20/400
SOJ20/450
SOJ22/300
SOJ22/350
SOJ22/400
SOJ22/450
SOJ24/300
SOJ24/350
SOJ24/400
SOJ24/450
SOJ26/300
SOJ26/350
SOJ26/400
SOJ26/450
SOJ28/300
SOJ28/350
SOJ28/400
SOJ28/450

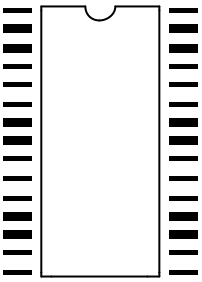
SOIC – Small Outline Integrated Circuit



SO8
SO8W
SO14
SO14W
SO16
SO16W
SO20W
SO24W
SO24X
SO28W
SO28X
SO32W
SO32X
SO36W
SO36X

These packaged are named by the number of pins, and then the pitch between rows in inches.

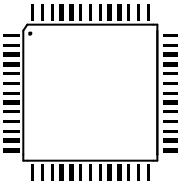
SSO – Shrink Small Outline Packs



SS048
SS056
SS064

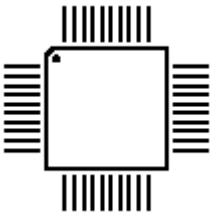
Pins are spaced by 0.8mm. Naming indicates number of pins, then rows spacing in inches.

CQFP – Ceramic Quad Flat Packs



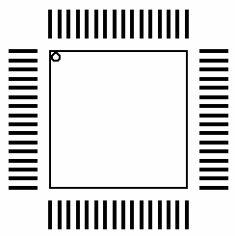
CQFP28
CQFP36
CQFP44
CQFP52
CQFP68
CQFP84
CQFP100
CQFP120
CQFP128
CQFP132
CQFP144
CQFP148
CQFP160
CQFP164
CQFP196

SQFP – Square Quad Flat Packs



SQFP10X14-80
SQFP24-5X5
SQFP32-5X5
SQFP32-5X7
SQFP32-6X6
SQFP32F-5X5
SQFP40-5X5
SQFP40-5X7
SQFP40-6X6
SQFP40-7X7
SQFP40F-6X6
SQFP44-5X7
SQFP48-5X5
SQFP48-6X6
SQFP48-7X7
SQFP52-5X7
SQFP52-7X10
SQFP56-5X5
SQFP56-6X6
SQFP56-7X7
SQFP60-5X7
SQFP60-7X10
SQFP64-6X6
SQFP64-7X7
SQFP64-10X10
SQFP68-5X7
SQFP68-7X10
SQFP70-7X7
SQFP72-10X10
SQFP76-7X10
SQFP80-7X7
SQFP80-10X10
SQFP80-12X12
SQFP88-10X10
SQFP88-10X14
SQFP88-12X12
SQFP92-7X10
SQFP100-7X10
SQFP100-10X14
SQFP100-12X12
SQFP100-14X14
SQFP108-10X14
SQFP108-12X12
SQFP108-14X14
SQFP112-10X10
SQFP120-10X10
SQFP120-14X14
SQFP120-14X20
SQFP128-14X14
SQFP128-14X20
SQFP136-12X12
SQFP140-10X14
SQFP144-12X12
SQFP144-20X20
SQFP148-10X14
SQFP152-14X20
SQFP152-20X20
SQFP160-14X20
SQFP168-14X14
SQFP176-14X14
SQFP176-20X28
SQFP176-24X24
SQFP184-20X20
SQFP184-20X28
SQFP184-24X24
SQFP192-20X20
SQFP208-14X20
SQFP208-28X28
SQFP216-14X20
SQFP216-28X28
SQFP224-20X28
SQFP224-24X24
SQFP232-20X28
SQFP232-24X24
SQFP240-32X32
SQFP248-20X20
SQFP248-32X32
SQFP256-20X20
SQFP256-28X40
SQFP264-28X28
SQFP264-28X40
SQFP272-28X28
SQFP272-36X36
SQFP280-36X36
SQFP296-24X24
SQFP300-20X28
SQFP304-24X24
SQFP304-32X32
SQFP304-40X40
SQFP308-20X28
SQFP312-32X32
SQFP312-40X40
SQFP324-28X40
SQFP332-28X40
SQFP336-44X44
SQFP344-36X36
SQFP344-44X44
SQFP352-28X28
SQFP352-36X36
SQFP360-28X28
SQFP384-40X40
SQFP392-40X40
SQFP400-32X32
SQFP408-32X32
SQFP424-44X44
SQFP432-28X40
SQFP432-44X44
SQFP440-28X40
SQFP456-36X36
SQFP464-36X36
SQFP512-40X40
SQFP520-40X40
SQFP568-44X44
SQFP576-44X44

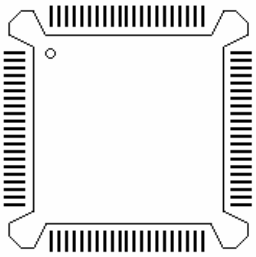
QFP – Quad Flat Packs



QFP44
QFP44-10X10
QFP48-12X12
QFP52-10X10
QFP64
QFP6412X12
QFP64-14X14
QFP80-14X14
QFP80-14X20
QFP100-14X20
QFP120-28X28
QFP128-28X28
QFP144-28X28
QFP160-28X28
QFP184-32X32
QFP232-40X40

.

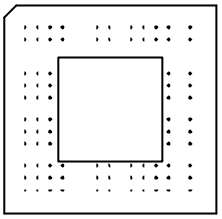
PQFP – Plastic Quad Flat Packs



PQFP84
PQFP100
PQFP132
PQFP164
PQFP196
PQFP244

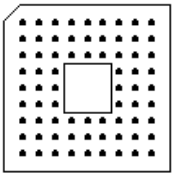
Pad dimension source from IPC-SM-782 Land pattern Standard

BGA – Ball Grid Array_1



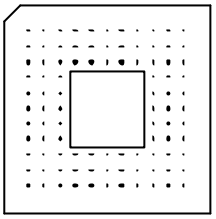
BGA7_25_1
BGA7_36_1
BGA8_36_1
BGA8_49_1
BGA9_49_1
BGA9_64_1
BGA10_64_1
BGA10_81_1
BGA11_81_1
BGA11_100_1
BGA12_100-3_1
BGA12_100_1
BGA12_121-3_1
BGA12_121_1
BGA13_121-3_1
BGA13_121_1
BGA13_144-3_1
BGA13_144_1
BGA14_144-3_1
BGA14_144_1
BGA14_169-3_1
BGA14_169_1
BGA15_169-3_1
BGA15_169-4_1
BGA15_169_1
BGA15_196-3_1
BGA15_196-4_1
BGA15_196_1
BGA17_225-3_1
BGA17_225-4_1
BGA17_225_1
BGA17_256-3_1
BGA17_256-4_1
BGA17_256_1
BGA19_289-3_1
BGA19_289-4_1
BGA19_289-5_1
BGA19_289_1
BGA19_324-3_1
BGA19_324-4_1
BGA19_324-5_1
BGA19_324_1
BGA21_361-3_1
BGA21_361-4_1
BGA21_361-5_1
BGA21_361_1
BGA21_400-3_1
BGA21_400-4_1
BGA21_400-5_1
BGA21_400_1
BGA23_441-3_1
BGA23_441-4_1
BGA23_441-5_1
BGA23_441_1
BGA23_484-3_1
BGA23_484-4_1
BGA23_484-5_1
BGA23_484_1
BGA25_529-3_1
BGA25_529-4_1
BGA25_529-5_1
BGA25_529_1
BGA25_576-3_1
BGA25_576-4_1
BGA25_576-5_1
BGA25_576_1
BGA27_625-3_1
BGA27_625-4_1
BGA27_625-5_1
BGA27_625_1
BGA27_676-3_1
BGA27_676-4_1
BGA27_676-5_1
BGA27_676_1
BGA29_729-3_1
BGA29_729-4_1
BGA29_729-5_1
BGA29_729_1
BGA29_784-3_1
BGA29_784-4_1
BGA29_784-5_1
BGA29_784_1
BGA31_841-3_1
BGA31_841-4_1
BGA31_841-5_1
BGA31_841_1
BGA31_900-3_1
BGA31_900-4_1
BGA31_900-5_1
BGA31_900_1
BGA33_961-3_1
BGA33_961-4_1
BGA33_961-5_1
BGA33_961_1
BGA33_1024-3_1
BGA33_1024-4_1
BGA33_1024-5_1
BGA33_1024_1
BGA35_1089-3_1
BGA35_1089-4_1
BGA35_1089-5_1
BGA35_1089_1
BGA35_1156-3_1
BGA35_1156-4_1
BGA35_1156-5_1
BGA35_1156_1
BGA37.5_1296-3_1
BGA37.5_1296-4_1
BGA37.5_1296-5_1
BGA37.5_1296_1
BGA37.5_1369-3_1
BGA37.5_1369-4_1
BGA37.5_1369-5_1
BGA37.5_1369_1
BGA40_1444-3_1
BGA40_1444-4_1
BGA40_1444-5_1
BGA40_1444_1
BGA40_1521-3_1
BGA40_1521-4_1
BGA40_1521-5_1
BGA40_1521_1
BGA42.5_1681-3_1
BGA42.5_1681-4_1
BGA42.5_1681-5_1
BGA42.5_1681_1
BGA42.5_1764-3_1
BGA42.5_1764-4_1
BGA42.5_1764-5_1
BGA42.5_1764_1
BGA45_1849-3_1
BGA45_1849-4_1
BGA45_1849-5_1
BGA45_1849_1
BGA45_1936-3_1
BGA45_1936-4_1
BGA45_1936-5_1
BGA45_1936_1
BGA47.5_2116-3_1
BGA47.5_2116-4_1
BGA47.5_2116-5_1
BGA47.5_2116_1
BGA47.5_2209-3_1
BGA47.5_2209-4_1
BGA47.5_2209-5_1
BGA47.5_2209_1
BGA50_2304-3_1
BGA50_2304-4_1
BGA50_2304-5_1
BGA50_2304_1
BGA50_2401-3_1
BGA50_2401-4_1
BGA50_2401-5_1
BGA50_2401_1

BGA – Ball Grid Array_1.27



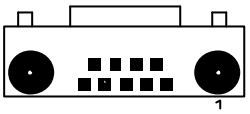
BGA7_16_1.27
BGA7_25_1.27
BGA8_25_1.27
BGA8_36_1.27
BGA9_25_1.27
BGA9_36_1.27
BGA10_36_1.27
BGA10_49_1.27
BGA11_49_1.27
BGA11_64_1.27
BGA12_64_1.27
BGA12_81-3_1.27
BGA12_81_1.27
BGA13_81-3_1.27
BGA13_81_1.27
BGA13_100-3_1.27
BGA13_100-4_1.27
BGA13_100_1.27
BGA14_81-3_1.27
BGA14_81_1.27
BGA14_100-3_1.27
BGA14_100-4_1.27
BGA14_100_1.27
BGA15_100-3_1.27
BGA15_100-4_1.27
BGA15_100_1.27
BGA15_121-3_1.27
BGA15_121-4_1.27
BGA15_121_1.27
BGA17_144-3_1.27
BGA17_144-4_1.27
BGA17_144-5_1.27
BGA17_144_1.27
BGA17_169-3_1.27
BGA17_169-4_1.27
BGA17_169-5_1.27
BGA17_169_1.27
BGA19_169-3_1.27
BGA19_169-4_1.27
BGA19_169-5_1.27
BGA19_169_1.27
BGA19_196-3_1.27
BGA19_196-4_1.27
BGA19_196-5_1.27
BGA19_196_1.27
BGA21_225-3_1.27
BGA21_225-4_1.27
BGA21_225-5_1.27
BGA21_225_1.27
BGA21_256-3_1.27
BGA21_256-4_1.27
BGA21_256-5_1.27
BGA21_256_1.27
BGA23_289-3_1.27
BGA23_289-4_1.27
BGA23_289-5_1.27
BGA23_289_1.27
BGA23_324-3_1.27
BGA23_324-4_1.27
BGA23_324-5_1.27
BGA23_324_1.27
BGA25_324-3_1.27
BGA25_324-4_1.27
BGA25_324-5_1.27
BGA25_324_1.27
BGA25_361-3_1.27
BGA25_361-4_1.27
BGA25_361-5_1.27
BGA25_361_1.27
BGA27_400-3_1.27
BGA27_400-4_1.27
BGA27_400-5_1.27
BGA27_400_1.27
BGA27_441-3_1.27
BGA27_441-4_1.27
BGA27_441-5_1.27
BGA27_441_1.27
BGA29_441-3_1.27
BGA29_441-4_1.27
BGA29_441-5_1.27
BGA29_441_1.27
BGA29_484-3_1.27
BGA29_484-4_1.27
BGA29_484-5_1.27
BGA29_484_1.27
BGA31_529-3_1.27
BGA31_529-4_1.27
BGA31_529-5_1.27
BGA31_529_1.27
BGA31_576-3_1.27
BGA31_576-4_1.27
BGA31_576-5_1.27
BGA31_576_1.27
BGA33_576-3_1.27
BGA33_576-4_1.27
BGA33_576-5_1.27
BGA33_576_1.27
BGA33_625-3_1.27
BGA33_625-4_1.27
BGA33_625-5_1.27
BGA33_625_1.27
BGA35_676-3_1.27
BGA35_676-4_1.27
BGA35_676-5_1.27
BGA35_676_1.27
BGA35_729-3_1.27
BGA35_729-4_1.27
BGA35_729-5_1.27
BGA35_729_1.27
BGA37.5_784-3_1.27
BGA37.5_784-4_1.27
BGA37.5_784-5_1.27
BGA37.5_784_1.27
BGA37.5_841-3_1.27
BGA37.5_841-4_1.27
BGA37.5_841-5_1.27
BGA37.5_841_1.27
BGA40_900-3_1.27
BGA40_900-4_1.27
BGA40_900-5_1.27
BGA40_900_1.27
BGA40_961-3_1.27
BGA40_961-4_1.27
BGA40_961-5_1.27
BGA40_961_1.27
BGA42.5_1024-3_1.27
BGA42.5_1024-4_1.27
BGA42.5_1024-5_1.27
BGA42.5_1024_1.27
BGA42.5_1089-3_1.27
BGA42.5_1089-4_1.27
BGA42.5_1089-5_1.27
BGA42.5_1089_1.27
BGA45_1156-3_1.27
BGA45_1156-4_1.27
BGA45_1156-5_1.27
BGA45_1156_1.27
BGA45_1225-3_1.27
BGA45_1225-4_1.27
BGA45_1225-5_1.27
BGA45_1225_1.27
BGA47.5_1296-3_1.27
BGA47.5_1296-4_1.27
BGA47.5_1296-5_1.27
BGA47.5_1296_1.27
BGA47.5_1369-3_1.27
BGA47.5_1369-4_1.27
BGA47.5_1369-5_1.27
BGA47.5_1369_1.27
BGA50_1444-3_1.27
BGA50_1444-4_1.27
BGA50_1444-5_1.27
BGA50_1444_1.27
BGA50_1521-3_1.27
BGA50_1521-4_1.27
BGA50_1521-5_1.27
BGA50_1521_1.27

BGA – Ball Grid Array_1.5

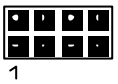


BGA7_9_1.5
BGA7_16_1.5
BGA8_16_1.5
BGA8_25_1.5
BGA9_25_1.5
BGA9_36_1.5
BGA10_25_1.5
BGA10_36_1.5
BGA11_36_1.5
BGA11_49_1.5
BGA12_49_1.5
BGA12_64-3_1.5
BGA12_64_1.5
BGA13_49_1.5
BGA13_64-3_1.5
BGA13_64_1.5
BGA14_64-3_1.5
BGA14_64_1.5
BGA14_81-3_1.5
BGA14_81_1.5
BGA15_81-3_1.5
BGA15_81_1.5
BGA15_100-3_1.5
BGA15_100-4_1.5
BGA15_100_1.5
BGA17_100-3_1.5
BGA17_100-4_1.5
BGA17_100_1.5
BGA17_121-3_1.5
BGA17_121-4_1.5
BGA17_121_1.5
BGA19_121-3_1.5
BGA19_121-4_1.5
BGA19_121_1.5
BGA19_144-3_1.5
BGA19_144-4_1.5
BGA19_144-5_1.5
BGA19_144_1.5
BGA21_169-3_1.5
BGA21_169-4_1.5
BGA21_169-5_1.5
BGA21_169_1.5
BGA21_196-3_1.5
BGA21_196-4_1.5
BGA21_196-5_1.5
BGA21_196_1.5
BGA23_196-3_1.5
BGA23_196-4_1.5
BGA23_196-5_1.5
BGA23_196_1.5
BGA23_225-3_1.5
BGA23_225-4_1.5
BGA23_225-5_1.5
BGA23_225_1.5
BGA25_225-3_1.5
BGA25_225-4_1.5
BGA25_225-5_1.5
BGA25_225_1.5
BGA25_256-3_1.5
BGA25_256-4_1.5
BGA25_256-5_1.5
BGA25_256_1.5
BGA27_289-3_1.5
BGA27_289-4_1.5
BGA27_289-5_1.5
BGA27_289_1.5
BGA27_324-3_1.5
BGA27_324-4_1.5
BGA27_324-5_1.5
BGA27_324_1.5
BGA29_324-3_1.5
BGA29_324-4_1.5
BGA29_324-5_1.5
BGA29_324_1.5
BGA29_361-3_1.5
BGA29_361-4_1.5
BGA29_361-5_1.5
BGA29_361_1.5
BGA31_361-3_1.5
BGA31_361-4_1.5
BGA31_361-5_1.5
BGA31_361_1.5
BGA31_400-3_1.5
BGA31_400-4_1.5
BGA31_400-5_1.5
BGA31_400_1.5
BGA33_441-3_1.5
BGA33_441-4_1.5
BGA33_441-5_1.5
BGA33_441_1.5
BGA33_484-3_1.5
BGA33_484-4_1.5
BGA33_484-5_1.5
BGA33_484_1.5
BGA35_484-3_1.5
BGA35_484-4_1.5
BGA35_484-5_1.5
BGA35_484_1.5
BGA35_529-3_1.5
BGA35_529-4_1.5
BGA35_529-5_1.5
BGA35_529_1.5
BGA37.5_576-3_1.5
BGA37.5_576-4_1.5
BGA37.5_576-5_1.5
BGA37.5_576_1.5
BGA37.5_625-3_1.5
BGA37.5_625-4_1.5
BGA37.5_625-5_1.5
BGA37.5_625_1.5
BGA40_625-3_1.5
BGA40_625-4_1.5
BGA40_625-5_1.5
BGA40_625_1.5
BGA40_676-3_1.5
BGA40_676-4_1.5
BGA40_676-5_1.5
BGA40_676_1.5
BGA42.5_729-3_1.5
BGA42.5_729-4_1.5
BGA42.5_729-5_1.5
BGA42.5_729_1.5
BGA42.5_784-3_1.5
BGA42.5_784-4_1.5
BGA42.5_784-5_1.5
BGA42.5_784_1.5
BGA45_841-3_1.5
BGA45_841-4_1.5
BGA45_841-5_1.5
BGA45_841_1.5
BGA45_900-3_1.5
BGA45_900-4_1.5
BGA45_900-5_1.5
BGA45_900_1.5
BGA47.5_900-3_1.5
BGA47.5_900-4_1.5
BGA47.5_900-5_1.5
BGA47.5_900_1.5
BGA47.5_961-3_1.5
BGA47.5_961-4_1.5
BGA47.5_961-5_1.5
BGA47.5_961_1.5
BGA50_1024-3_1.5
BGA50_1024-4_1.5
BGA50_1024-5_1.5
BGA50_1024_1.5
BGA50_1089-3_1.5
BGA50_1089-4_1.5
BGA50_1089-5_1.5
BGA50_1089_1.5

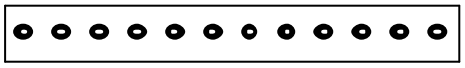
CONNECTORS.LIB



CONN-D9
CONN-D15
CONN-D15S
CONN-D25
CONN-D37

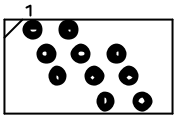


CONN-DIL8
CONN-DIL10
CONN-DIL14
CONN-DIL16
CONN-DIL20
CONN-DIL26
CONN-DIL30
CONN-DIL34
CONN-DIL40
CONN-DIL50
CONN-DIL60



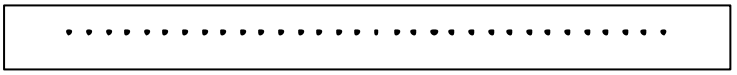
TBLOCK-I2
TBLOCK-I3
TBLOCK-I4
TBLOCK-I5
TBLOCK-I8
TBLOCK-I12
TBLOCK-M2
TBLOCK-M3
TBLOCK-M4
TBLOCK-M6
TBLOCK-M12

CONN-SIL1
CONN-SIL2
CONN-SIL3
CONN-SIL4
CONN-SIL5
CONN-SIL6
CONN-SIL7
CONN-SIL8
CONN-SIL9
CONN-SIL10
CONN-SIL12

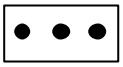


4HEAD-10
4HEAD-16
4HEAD-20
4HEAD-26
4HEAD-34
4HEAD-40
4HEAD-50
4HEAD-60

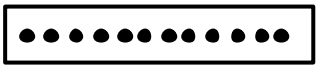
DIN 41612-32
DIN 41612-64
DIN 41612-96



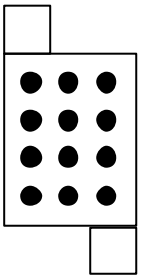
41612-1R-B-R
41612-2R-B-R
41612-2R-C-R
41612-3R-C-R



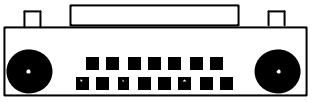
BT-IDC-03
BT-IDC-04



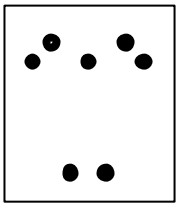
CRIMP 03 1-25MM
CRIMP 04 1-25MM
CRIMP 06 1-25MM
CRIMP 08 1-25MM
CRIMP 10 1-25MM
CRIMP 12 1-25MM
CRIMP 14 1-25MM



PWR-02-F
PWR-02-M
PWR-03-F
PWR-03-M
PWR-06-F
PWR-06-M
PWR-12-F
PWR-12-M
PWR-24-F
PWR-24-M

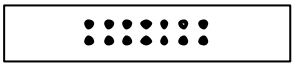


D-09-F-R
D-09-F-S
D-09-M-R
D-09-M-S
D-15-F-R
D-15-F-S
D-15-M-R
D-15-M-S
D-25-F-R
D-25-F-S
D-25-M-R
D-25-M-S
D-37-F-R
D-37-F-S
D-37-M-R
D-37-M-S

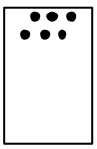


DIN3
DIN5
DIN6
DIN8

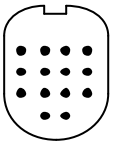
RF-BNC-R
RF-BNC-S
RF-MCX-S
RF-SMX-R
RF-SMX-S



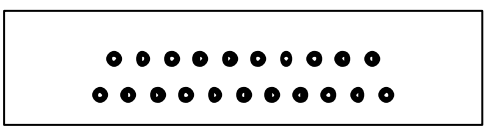
RIB 10 R
RIB 10 S
RIB 14 R
RIB 14 S
RIB 16 R
RIB 16 S
RIB 20 R
RIB 20 S
RIB 24 R
RIB 24 S
RIB 26 R
RIB 26 S
RIB 30 R
RIB 30 S
RIB 34 R
RIB 34 S
RIB 40 R
RIB 40 S
RIB 50 R
RIB 50 S
RIB 60 R
RIB 60 S
RIB 64 R
RIB 64 S



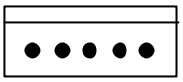
RJ-4-R
RJ-6-R
RJ-8-R



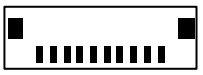
RP5-14-F



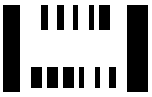
SCART-1W



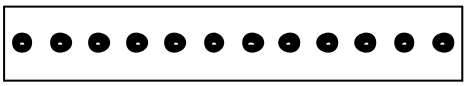
SIL-100-02
SIL-100-02R
SIL-100-03
SIL-100-03R
SIL-100-04
SIL-100-04R
SIL-100-05
SIL-100-05R
SIL-100-06
SIL-100-06R
SIL-100-07
SIL-100-07R
SIL-100-08
SIL-100-08R
SIL-100-10
SIL-100-10R
SIL-100-15
SIL-100-15R
SIL-100-20
SIL-100-20R
SIL-156-02
SIL-156-02R
SIL-156-03
SIL-156-03R
SIL-156-04
SIL-156-04R
SIL-156-05
SIL-156-05R
SIL-156-06
SIL-156-06R
SIL-156-08
SIL-156-08R



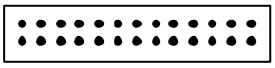
SMTCRIMP 03 1-25MM
SMTCRIMP 04 1-25MM
SMTCRIMP 06 1-25MM
SMTCRIMP 08 1-25MM
SMTCRIMP 10 1-25MM
SMTCRIMP 12 1-25MM
SMTCRIMP 14 1-25MM
SMTCRIMP2 04 1-25MM
SMTCRIMP2 06 1-25MM
SMTCRIMP2 10 1-25MM
SMTCRIMP2 14 1-25MM



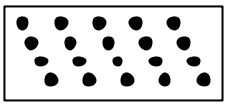
STACK 09 F 1MM
STACK 09 M 1MM
STACK 11 F 1MM
STACK 11 M 1MM
STACK 15 F 1MM
STACK 15 M 1MM
STACK 25 F 1MM
STACK 25 M 1MM
STACK 31 F 1MM
STACK 31 M 1MM
STACK 41 F 1MM
STACK 41 M 1MM
STACK 51 F 1MM
STACK 51 M 1MM
STACK 96 F 1MM
STACK 96 M 1MM



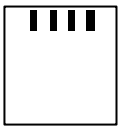
TBLOCK-I2
TBLOCK-I3
TBLOCK-I4
TBLOCK-I5
TBLOCK-I8
TBLOCK-I12
TBLOCK-M2
TBLOCK-M3
TBLOCK-M4
TBLOCK-M6
TBLOCK-M12



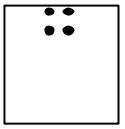
TRANS 10 DIL
TRANS 14 DIL
TRANS 16 DIL
TRANS 20 DIL
TRANS 26 DIL
TRANS 34 DIL
TRANS 40 DIL
TRANS 50 DIL



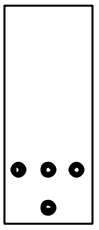
TRANS-10-Q
TRANS-16-Q
TRANS-20-Q
TRANS-26-Q
TRANS-34-Q
TRANS-40-Q
TRANS-50-Q



USB



USB-B



XLR-3-F
XLR-3-M