

7.0 BILL OF MATERIALS, SCHEMATICS, AND PCB OVERLAYS

Agile Logic Board Bill of Materials

Last Revision: 09.12.00

Component Reference	Quantity	Identification	Modifier	Package
C1	1	22pF		CAP250D
C10	1	0.47uF		CAP100RP
C11	1	10 uF		CAP100RP
C12	1	22 uF		CAP100RP
C13	1	22 uF		CAP100RP
C14	1	22 uF		CAP100RP
C15	1	22 uF		CAP100RP
C16	1	0.01uF		CAP250D
C17	1	0.01uF		CAP250D
C18	1	47 uF		CAP100RP
C19	1	47 uF		CAP100RP
C2	1	22pF		CAP250D
C20	1			CAP100RP
C21	1	0.01uF		CAP250D
C22	1	0.01uF		CAP250D
C23	1	0.01uF		CAP250D
C24	1	0.01uF		CAP250D
C3	1	22 uF		CAP100RP
C4	1	10 uF		CAP100RP
C5	1	0.47uF		CAP100RP
C6	1	0.47uF		CAP100RP
C7	1	0.01uF		CAP250D
C8	1	0.01uF		CAP250D
C9	1	470 uF		CAP197R
D1	1		RED T1	LED T1-W/HLD
D2	1		T1 W/HLD	LED
D3	1		RED T1	LED T1-W/HLD
DS1	1		8 POS	DPS8W
JP1	1		4 POS HEADER	JP-DUAL4
JP2	1		8 POS HEADER	JP-DUAL8
JP3	1			JP-DUAL4
JP4	1		3PIN	JP3IL
JP5	1		3PIN	JP3IL
JP6	1		3PIN	JP3IL
JP7	1		3 POS	JP3IL
JP8	1		3 IL	JP3IL

L1	1	6 T		COIL 60
L2	1	6 T		COIL 60
L3	1	6 T		COIL 60
L4	1	6 T		COIL 60
L5	1	6 T		COIL 60
P1	1		4 PIN	SMB
P10	1		10 POS	DIPIL10
P11	1		4 PIN	SMB
P12	1		8 POS	CONNIL8
P2	1		RT ANG F	FCONN
P3	1		12 POS	CONN IL12
P4	1		12 POS	CONN IL12
P5	1		ON DISPLAY BDS	CONN IL19
P6	1		12 POS	CONN IL12
P7	1		12 POS	CONN IL12
P8	1		4 PIN	SMB
P9	1		10 PIN	CONN10IL
Q1	1		2222	TRANS2222
Q2	1		2907	TO18C
QP1	1		4-2222A	DIP14C
R1	1	10 Mohm		RES1-8
R10	1	1 kOhm		RES1-8
R11	1	5 kOhm		POT1
R12	1	10 Kohm		RES1-8
R13	1	10 Kohm		RES1-8
R14	1	1 kOhm		RES1-8
R15	1	6.8 kOhm		RES1-8
R16	1	1 kOhm		RES1-8
R17	1	500 Ohm		POT1
R18	1	10 Kohm		RES1-8
R19	1	5.6 kOhm		RES1-8
R2	1	4.7 Ohm		RES1-8
R20	1	10 Kohm		RES1-8
R21	1	91 Ohm		RES1-8
R22	1	10 Ohm		RES1-8
R23	1	5 kOhm		POT1
R3	1	5 kOhm		POT1
R4	1	10 Kohm		RES1-8
R5	1	1 kOhm		RES1-8
R6	1	68 kOhm		RES1-8
R7	1	68 kOhm		RES1-8
R8	1	68 kOhm		RES1-8
R9	1	4.7 Ohm		RES1-8
RP1	1	10 Kohm		DIPIL11
RP2	1	10 Kohm		DIPIL11
RP3	1	10 Kohm		DIPIL11
RP4	1	150 Ohm		DIP IL8

RP5	1	150 Ohm		DIP IL8
SW1	1		PADDLE	SW1
SW2	1		PADDLE	SW1
SW3	1		ROCKER	SW1
SW4	1		ROCKER	SW1
U1	1		MC74HC165	DIP16C
U2	1		IC34064	REGTO92
U3	1		68705C8	DIP40C
U4	1		74H04	DIP14C
U5	1		74H04	DIP14C
U6	1		MC14499	DIP18C
U7	1		DS232	DIP16C
U8	1		X2402	DIP8C
Y1	1	4MHz		XTAL

Agile Output Amplifier Bill of Materials

Last Revision: 09.12.00

Component Reference	Quantity	Identification	Modifier	Package
C1	1	0.1uF		1206
C2	1	0.1uF		1206
C3	1	2.7 pF		1206
C4	1	3-10pF	VCAP	CGKG27
C5	1	3-10pF	VCAP	CGKG27
C6	1	3-10pF	VCAP	CGKG27
C7	1	2.7 pF		1206
E1	1		E-COAX	
E2	1	12 V		EPAD
E3	1		E-COAX	
E5	1	GND		EPAD
I1	1			1206
L1	1			IND400
L2	1	10 nH		1210
L3	1	12 nH		1210
L4	1	12 nH		1210
L5	1	10 nH		1210
P1	1			FCONN-S
U1	1		AMP6342	

Audio Video Modulator Board Bill of Materials

Last Revision: 09.12.00

Component Reference	Quantity	Identification	Modifier	Package
C1	1	0.1uF		SMD1206
C10	1	0.1uF		SMD1206
C100	1	4.7uF		CAP100RP
C101	1	100pF		SMD1206
C102	1	47uF		CAP100RP
C103	1	0.1uF		SMD1206
C104	1	470pF		SMD1206
C105	1	0.1uF		SMD1206
C106	1	470uF		CAP200RP
C107	1	0.1uF		SMD1206
C108	1	470uF		CAP200RP
C109	1	0.0027uF		SMD1206
C11	1	0.1uF		SMD1206
C110	1	0.1uF		SMD1206
C111	1	NI		SMD1206
C112	1	470uF		CAP200RP
C113	1	0.1uF		SMD1206
C114	1	0.1uF		SMD1206
C115	1	0.1uF		SMD1206
C116	1	0.1uF		SMD1206
C117	1	0.01uF		SMD1206
C118	1	18pF		SMD1206
C119	1	NI		SMD1206
C12	1	0.01uF		SMD1206
C120	1	0.1uF		SMD1206
C121	1	470uF		CAP200RP
C122	1	0.01uF		SMD1206
C123	1	470uF		CAP200RP
C124	1	10pF		SMD1206
C125	1	27pF		SMD1206
C126	1	82pF		SMD1206
C127	1	0.001uF		SMD1206
C128	1	0.01uF		SMD1206
C129	1	0.01uF		SMD1206
C13	1	0.1uF		SMD1206
C130	1	0.1uF		SMD1206
C131	1	NI		SMD1206
C132	1	0.1uF		SMD1206
C133	1	0.01uF		SMD1206
C134	1	0.01uF		SMD1206

C135	1	0.1uF		SMD1206
C136	1	0.1uF		SMD1206
C137	1	0.01uF		SMD1206
C138	1	0.1uF		SMD1206
C139	1	0.01uF		SMD1206
C14	1	0.001uF		SMD1206
C140	1	0.01uF		SMD1206
C141	1	0.01uF		SMD1206
C142	1	0.1uF		SMD1206
C143	1	12pF		SMD1206
C144	1	12pF		SMD1206
C145	1	3-10pF		CGKG27
C146	1	12pF		SMD1206
C147	1	12pF		SMD1206
C148	1	0.1uF		SMD1206
C149	1	0.01uF		SMD1206
C15	1	0.01uF		SMD1206
C150	1	0.1uF		SMD1206
C151	1	27pF		SMD1206
C152	1	56pF		SMD1206
C153	1	27pF		SMD1206
C154	1	0.01uF		SMD1206
C155	1	0.01uF		SMD1206
C156	1	0.01uF		SMD1206
C16	1	0.1uF		SMD1206
C17	1	22pF		SMD1206
C18	1	56pF		SMD1206
C19	1	10pF		SMD1206
C2	1	0.1uF		SMD1206
C20	1	0.001uF		SMD1206
C21	1	0.47uF		SMD1206
C22	1	22pF		SMD1206
C23	1	22pF		SMD1206
C24	1	4.5-20pF		CGKG27
C25	1	0.01uF		SMD1206
C26	1	0.001uF		SMD1206
C27	1	22pF		SMD1206
C28	1	4.7uF		CAP100RP
C29	1	100pF		SMD1206
C3	1	4.7uF		CAP100RP
C30	1	0.01uF		SMD1206
C31	1	0.1uF		SMD1206
C32	1	0.001uF		SMD1206
C33	1	0.01uF		SMD1206
C34	1	68pF		SMD1206
C35	1	100pF		SMD1206
C36	1	100pF		SMD1206
C37	1	68pF		SMD1206

C38	1	470uF		CAP200RP
C39	1	0.01uF		SMD1206
C4	1	0.1uF		SMD1206
C40	1	0.01uF		SMD1206
C41	1	0.1uF		SMD1206
C42	1	0.01uF		SMD1206
C43	1	0.01uF		SMD1206
C44	1	0.1uF		SMD1206
C45	1	470uF	25V	CAP200RP
C46	1	1000uF		CAP300RP
C5	1	4.7uF		CAP100RP
C6	1	0.1uF		SMD1206
C7	1	0.001uF		SMD1206
C8	1	470uF		CAP200RP
C9	1	47pF		SMD1206
D1	1	5236		SOT23
D10	1	3800		SOT23
D100	1	2800		SOT23
D101	1	2800		SOT23
D11	1	3800		SOT23
D2	1	2800		SOT23
D3	1	2800		SOT23
D6	1	MMBV105GL		SOT23
D7	1	10 V		SOT23
D8	1	4.7V		SOT23
D9	1	3800		SOT23
F1	1			SIP5L
F100	1			FILTER2219
F101	1			SF28S
J1	1	NI		SMD1206
JP1	1	NI		SMD1206
JP2	1	0		SMD1206
JP3	1	NI		SMD1206
JP4	1	NI		SMD1206
JP5	1	0		SMD1206
L1	1	10.5 T,26GA		COIL
L100	1	12.5T 22GA		COIL
L101	1	0.47uH		SMD1812
L102	1	0.47uH		SMD1812
L103	1	12.5T 22GA		COIL-S
L104	1	12.5T 22GA		COIL-S
L105	1	0.47uH		SMD1812
L106	1	0.47uH		SMD1812
L107	1	0.47uH		SMD1812
L15	1	0.47uH		IND400
L2	1	0.33uH		SMD1812
L3	1	0.33uH		SMD1812
L4	1	0.33uH		SMD1812

L5	1	0.47uH		SMD1812
MX100	1			MIXER
P1	1			FCONN-S
P100	1			FCONN-S
P101	1			RTARCA
P102	1			RTARCA
P103	1			FCONN-S
P2	1			CONN10IL
P7	1			CONHDR6
P8	1			CONHDR6
Q1	1	2369		SOT23
Q100	1	2222		SOT23
Q101	1	2907		SOT23
Q102	1	2222		SOT23
Q103	1	2222		SOT23
Q104	1	2907		SOT23
Q105	1	2222		SOT23
Q106	1	2222		SOT23
Q107	1	2222		SOT23
Q108	1			MRF559B2
Q109	1			MRF559B2
Q110	1			MRF559B2
Q2	1	2369		SOT23
R1	1	300kohm		SMD1206
R10	1	220kohm		SMD1206
R100	1	75ohm		R1206A
R101	1	22kohm		SMD1206
R102	1	270ohm		SMD1206
R103	1	620ohm		SMD1206
R104	1	2kohm		SMD1206
R105	1	360ohm		SMD1206
R106	1	2kohm		SMD1206
R107	1	51ohm		SMD1206
R108	1	330ohm		SMD1206
R109	1	3.6kohm		SMD1206
R11	1	100ohm		SMD1206
R110	1	6.8kohm		SMD1206
R111	1	680kohm		SMD1206
R112	1	1kohm		SMD1206
R113	1	910ohm		SMD1206
R114	1	22ohm		SMD1206
R115	1	330ohm		SMD1206
R116	1	1.5kohm		SMD1206
R117	1	560ohm		SMD1206
R118	1	1kohm		SMD1206
R119	1	330ohm		SMD1206
R12	1	75kohm		SMD1206
R120	1	1kohm	POTENTIOMETER	ST53YJ

R121	1	560ohm		SMD1206
R122	1	1.5kohm		SMD1206
R123	1	470kohm		SMD1206
R124	1	51ohm		SMD1206
R125	1	10kohm	POTENTIOMETER	ST53YJ
R126	1	1kohm		SMD1206
R127	1	1kohm		SMD1206
R128	1	NI		SMD1206
R129	1	360ohm		SMD1206
R13	1	1kohm		SMD1206
R130	1	10kohm	POTENTIOMETER	ST53YJ
R131	1	180ohm		SMD1206
R132	1	51ohm		SMD1206
R133	1	150ohm		SMD1206
R134	1	22ohm		SMD1206
R135	1	10kohm		SMD1206
R136	1	10kohm		SMD1206
R137	1	1.5kohm		SMD1206
R138	1	1kohm		SMD1206
R139	1	10kohm		SMD1206
R14	1	470kohm		SMD1206
R140	1	20kohm	1%	SMD1206
R141	1	27ohm		SMD1206
R142	1	36ohms		SMD1206
R143	1	27ohm		SMD1206
R144	1	1kohm		SMD1206
R145	1	4.7ohm		SMD1206
R146	1	82ohm		SMD1206
R147	1	2kohm		SMD1206
R148	1	220ohm		SMD1206
R149	1	75ohm		SMD1206
R15	1	10kohm	POTENTIOMETER	ST53YJ
R150	1	1kohm		SMD1206
R151	1	18ohm		SMD1206
R152	1	1kohm		SMD1206
R153	1	1kohm		SMD1206
R154	1	2kohm		SMD1206
R155	1	4.7ohm		SMD1206
R156	1	82ohm		SMD1206
R157	1	220ohm		SMD1206
R158	1	75ohm		SMD1206
R159	1	4.7ohm		SMD1206
R16	1	100ohm		SMD1206
R160	1	91ohm		SMD1206
R161	1	4.7ohm		SMD1206
R162	1	4.7ohm		SMD1206
R163	1	75ohm		SMD1206
R164	1	4.7ohm		SMD1206

R165	1	1kohm		SMD1206
R166	1	2kohm		SMD1206
R167	1	4.7ohm		SMD1206
R168	1	82ohm		SMD1206
R169	1	75ohm		SMD1206
R17	1	1kohm		SMD1206
R170	1	220ohm		SMD1206
R171	1	NI		SMD1206
R172	1	NI		SMD1206
R18	1	270ohm		SMD1206
R19	1	10kohm		SMD1206
R2	1	150kohm		SMD1206
R20	1	560ohm		SMD1206
R21	1	10kohm		SMD1206
R22	1	1kohm		SMD1206
R23	1	390ohm		SMD1206
R24	1	100kohm		SMD1206
R25	1	220kohm		SMD1206
R26	1	1Mohm		SMD1206
R27	1	2kohm		SMD1206
R28	1	68ohm		RES2010A
R29	1	220ohm	1/2 WATT	RES2010A
R3	1	300kohm		SMD1206
R30	1	75ohm		SMD1206
R31	1	1kohm		SMD1206
R32	1	1kohm		SMD1206
R33	1	2kohm		SMD1206
R34	1	1kohm		SMD1206
R35	1	4.7kohm		SMD1206
R36	1	2kohm		SMD1206
R37	1	1kohm		SMD1206
R38	1	430ohm		SMD1206
R39	1	27ohm		SMD1206
R4	1	150kohm		SMD1206
R40	1	430ohm		SMD1206
R5	1	1kohm		SMD1206
R7	1	4.7kohm		SMD1206
R8	1	10kohm		SMD1206
R9	1	10kohm		SMD1206
TB1	1			TERBLK
TP100	1	0		SMD1206
TP101	1	0		SMD1206
U1	1	LF353		DIP8SM
U100	1	NE592D		DIP8SM
U101	1	2090		DIP16SM
U102	1	LM1881		DIP8SM
U103	1	LM358		DIP8SM
U2	1	145106		145106

U4	1	501		FPT-08-M01
Y1	1			XTL49
Y100	1	45.75Mhz		XTL49

Signal Conditioning Bill of Materials

Last Revision: 11.07.05

Index	Qty	Designations	Description	Mfg. Part Number	Package
1	1	C832	Capacitor, electrolytic, 10uF 35V	ECE-V1VA100SR	VS "C"
2	2	C839, C840	Capacitor, electrolytic, 100uF, 25V, SMD	ECE-V1EA101UP	VS 'E'
3	1	C817	Capacitor, electrolytic, 100uF, 10V, SMD	ECE-V1AA101SP	VS 'D'
4	4	C803, C806, C809, C815	Capacitor, tantalum, 10uF, 16V, SMD	T491B106K016AS	SMD 3528
5	1	C820	Capacitor, ceramic, 470pF 50V X7R	CC0805KRX7R9BB471	SMD 0805
6	10	C821, C824, C825, C826, C827, C828, C829, C830, C833, C834	Capacitor, ceramic, 1000pF 50V, X7R 10%	ECJ-2VB1H102K	SMD 0805
7	10	C802, C805, C808, C814, C818, C823, C831, C835, C836, C837	Capacitor, ceramic, 0.01uF 50V X7R	C0805C103K5RACTU	SMD 0805
8	9	C801, C804, C807, C810, C811, C812, C813, C816, C819	Capacitor, ceramic, 0.1 uF, 50V, SMD	C0805C104K5RACTU	SMD 0805
9	1	C838	Capacitor, ceramic, 0.33 uF, 25V, SMD	ECJ-2YF1E334Z	SMD 0805
10	1	C822	Capacitor, trim 5-50pF low power	9410-5SL-1	SMD
11	1	D801	Diode, 200mA, 100V, SMD		SOT-23
12	1	D802	Diode Sil 2A 200V DO-214AA	S2D	SMBJ
13	2	D803, D804	Diode, If= 1A, Vbr= 100V		SOT-23
14	1	D805	Diode, LED, 5mm, 1500mCd	SSL-LX5093SRC/DV	TH
15	1	J801	Connector, 4-position, 0.2" spacing, rt. angle	ED120/4DS	0.2" THT
16	2	J802, J803	Connector, RCA, jack, vertical, PC mount, blue	RCJ-021	
		J804, J805	Connector, F, PCB, strait	RFF-1450-03	TH
17	1	K801	Relay, DPDT, 5Vdc coil	TX2SA-5V	SMD
18	5	L801, L802, L803, L804, L805	Inductor, 0.01uH, 0.450A max	NLV32T-010J-PF	SMD 1210
19	1	L806	Inductor, 1.5uH, 5%	KL32LTE1R5J	SMD 1210
20	2	L807, L808	Inductor, 2.2uH, 5%	KL32LTE2R2J	SMD 1210
21	4	Q801, Q802, Q803, Q804	Transistor, general purpose		SOT-23
22	2	R830, R831	Resistor, 0.0? , 5%	9C12063A0R00JLHFT	SMD 1206
23	2	R821, R822	Resistor, 39? , 1%	MCR10EZHF39R0	SMD 0805
24	1	R826	Resistor, 56? , 1%	MCR10EZHF56R0	SMD 0805
25	1	R819	Resistor, 68? , 1%	MCR10EZHF68R0	SMD 0805
26	2	R808, R818	Resistor, 75 ohm, 1/4W	CRCW1206-750JRT1	SMD 1206
27	1	R827	Resistor, 100? , 1%	MCR10EZHF1000	SMD 0805
28	1	R820	Resistor, 100? , 5%	ERJ-1TYJ101U	SMD 2512
29	3	R801, R824, R825	Resistor, 120 ohm, 1/8W	MCR10EZHF1210	SMD 0805

30	1	R823	Resistor, 120? , 5%	MCR18EZHJ121	SMD 1206
31	2	R806,R807	Resistor, 402 ohm, 1/8W	MCR10EZH4020	SMD 0805
32	2	R803, R832	Resistor, 470 ohm, 1/8W	MCR10EZH4700	SMD 0805
33	1	R829	Resistor, 680? , 1%	MCR10EZH6800	SMD 0805
34	1	R813	Resistor, 1 kohm, 1/8W	MCR10EZH1001	SMD 0805
35	1	R828	Resistor, 1.8K? , 1%	MCR10EZH1801	SMD 0805
36	4	R811, R812, R816, R817	Resistor, 3 kohm, 1/8W	MCR10EZH3001	SMD 0805
37	5	R802, R804, R810, R814, R815	Resistor, 10 kohm, 1/8W	MCR10EZH1002	SMD 0805
38	1	R809	Resistor, 47 kohm, 1/8W	MCR10EZH4702	SMD 0805
39	1	R805	Resistor, TBD, 1/8W (Not stuffed)		SMD 0805
40	1	S801	Square post header, 3 position, 0.1" breakaway	7000-1X25SG	-
41	1	S802	Square post header, 2 position, 0.1" breakaway		
42	1	U801	IC, video signal conditioner	MAX7450	SOIC-8
43	2	U802, U803	IC, op-amp, voltage limiting	OPA698ID	SOIC-8
44	1	U804	IC, comparator, dual	LM393M	SOIC-8
45	1	U805	IC, voltage reference		SOT-23
46	1	U806	Amplifier		SMD
47	1	U807	IC, regulator, +5V, 500mA	LM78M05CDT	SMD
48	1	U808	IC, voltage converter, 100mA, 735mW	LM2660M	SOIC-8
49	1	VR801	Potentiometer, 10K? , 3/8" top adj.	3386P-1-103	TH
50	2	VR804, VR805	Potentiometer, 10K? , 4MM top adj.	3214W-1-103E	SMD
51	2	VR802, VR803	Potentiometer, 500? , 3/8" top adj.	3386P-1-501	TH
52	1	PCB	Printed circuit board, double sided, FR4, 0.062", 3.359" (W) X 1.550" (H)		-
53	3		Spacer, 1/4" Hex, Aluminum, M/F, 4-40	139213	
54	1		Cable, RG-179/PP7.5", connects V.C.B. to modulator	500-0010-045	

Digital Up converter Bill of Materials

Last Revision: 09.12.00

Component Reference	Quantity	Identification	Modifier	Package
C1	1	0.1uF		1206
C101	1	100 Pf		1206
C102	1	0.1uF		1206
C103	1	100uF	25V	CAP100RP
C104	1	0.47uF		1812
C105	1	0.1uF		1206
C106	1	0.22uF		1206
C107	1	100 Pf		1206
C108	1	1pF		1206
C109	1	100 Pf		1206
C11	1	0.1uF		1206
C110	1	100 Pf		1206
C111	1	1pF		1206
C112	1	1pF		1206
C113	1	1pF		1206
C114	1	1pF		1206
C115	1	0.47uF		1812
C116	1	0.1uF		1206
C116A	1	100uF	25V	CAP100RP
C117	1	0.1uF		1206
C118	1	0.1uF		1206
C119	1	0.1uF		1206
C12	1	0.01uF		1206
C120	1	100 Pf		1206
C126	1	0.1uF		1206
C127	1	0.1uF		1206
C128	1	100 Pf		1206
C129	1	0.1uF		1206
C13	1	0.1uF		1206
C130	1	2.2pF		1206
C131	1	100 Pf		1206
C132	1	0.1uF		1206
C133	1	0.47uF		1206
C134	1	100uF	25V	CAP100RP
C135	1	10 Pf		1206
C136	1	10 Pf		1206
C137	1	10 Pf		1206
C138	1	10 Pf		1206
C139	1	10 Pf		1206
C14	1	0.01uF		1206
C140	1	10 Pf		1206
C141	1		NI	1206

C15	1	0.1uF		1206
C2	1	0.01uF		1206
C201	1		NI	CGKG27
C204	1	0.1uF		1206
C205	1	0.1uF		1206
C206	1	100 Pf		1206
C207	1	0.1uF		1206
C208	1	2.2pF		1206
C209	1	0.1uF		1206
C21	1	0.1uF		1206
C210	1	0.1uF		1206
C3	1	0.01uF		1206
C300	1	0.1uF		1206
C301	1	100 Pf		1206
C303	1	470 uF	25 V	CAP200RP
C4	1	0.01uF		1206
C5	1	0.1uF		1206
D1	1	3800		SOT-23
D100	1	9.1V	DIODEZ	DO214AC
D101	1	9V	914	SOT-23
D102	1	4.7V		SOT-23
D103	1	10 V	DIODEZ	DO214AC
D2	1	3800		SOT-23
D3	1	3800		SOT-23
F2	1			F-LP-TOKO
F4	1			F-LP-TOKO
FT200	1			FIL-TOKO
J1	1	N/A		THRU-HOLE
J10	1	N/A		THRU-HOLE
J2	1	N/A		THRU-HOLE
J3	1	N/A		THRU-HOLE
J4	1	N/A		THRU-HOLE
J5	1	N/A		THRU-HOLE
J6	1	N/A		THRU-HOLE
J7	1	N/A		THRU-HOLE
J8	1	N/A		THRU-HOLE
J9	1	N/A		THRU-HOLE
L1	1	0.47uH		1812
L104	1	10nH		1812
L107	1	0.22uH		1210
L108	1	0.22uH		1210
L109	1	0.22uH		1210
L5	1	0.47uH		1812
L6	1	0.47uH		1812
M1	1		MIXER-RF2	
P1	1	N/A		FCONN-S
P2	1	N/A		FCONN-S
R1	1	1k Ohm		1206

R101	1	1k Ohm		1206
R102	1	910 Ohm		1206
R103	1	910 Ohm		1206
R104	1	0		1206
R105	1	47 kOhm		1206
R106	1	220 Ohm	1/2 WATT	RES2010A
R108	1	43 Ohm	1/2 WATTS	RES2010A
R109	1	220 Ohm	1/2 WATT	RES2010A
R111	1	33 Ohm		1206
R112	1	180 Ohm		1206
R113	1	180 Ohm		1206
R114	1	220 Ohm	1/2 WATT	RES2010A
R115	1	75 Ohm		1206
R116	1	10 Ohm		1206
R117	1	36 Ohm		1206
R118	1	10 Ohm		1206
R119	1	75 Ohm		1206
R120	1	110 Ohm	1 WATT	RES2010A
R121	1	4.7 Ohm		1206
R122	1	91 Ohm		1206
R123	1	4.7 Ohm		1206
R14	1	36 Ohm		1206
R15	1	62 Ohm		1206
R16	1	36 Ohm		1206
R17	1	1k Ohm		1206
R18	1	2k Ohm		1206
R19	1	75 Ohm		1206
R2	1	1k Ohm		1206
R20	1	8.2 Ohm		1206
R200	1	300 Ohm		1206
R201	1	18 Ohm		1206
R202	1	300 Ohm		1206
R203	1	100 Ohm		1206
R204	1	110 Ohm	1 WATT	RES2010A
R205	1	4.7 Ohm		1206
R206	1	75 Ohm		1206
R207	1	4.7 Ohm		1206
R21	1	82 Ohm		1206
R22	1	220 Ohm		1206
R23	1	100 Ohm		1206
R24	1	4.7 Ohm		1206
R25	1	100 Ohm		1206
R3	1	2k Ohm		1206
R4	1	4.7k Ohm		1206
R5	1	2k Ohm		1206
R6	1	1k Ohm		1206
U100	1		145200	TSSOP20
U101	1		ERA5	WW107

U102	1		ERA5	WW107
U2	1		RF559B2	
U200	1		ERA5	WW107
VC01	1			MINI14SL

750 MHz Down Converter Bill of Materials

Last Revision: 09.13.00

Component Reference	Quantity	Identification	Modifier	Package
C1	1	27 pF		1206
C10	1	100 pF		1206
C100	1	2.2 pF		1206
C101	1	2.2 pF		1206
C102	1		NI	1206
C11	1	0.1 uF		1206
C12	1	0.47 uF		1812
C13	1	100 uF	25 V	CAP100RP
C14	1		NI	1206
C15	1	10 pF		1206
C16	1	10 pF		1206
C17	1	10 pF		1206
C18	1	10 pF		1206
C19	1	10 pF		1206
C2	1	27 pF		1206
C20	1	10 pF		1206
C200	1		NI	1206
C205	1	2.7 pF		1206
C206	1	3-10 pF		CGKG27
C207	1	3-10 pF		CGKG27
C208	1	3-10 pF		CGKG27
C209	1	2.7 pF		1206
C21	1	0.1 uF		1206
C210	1	0.1 uF		1206
C211	1	0.1 uF		1206
C212	1	0.1 uF		1206
C213	1	100 pF		1206
C214	1	1 pF		1206
C215	1	10 pF		1206
C22	1	0.22 uF		1206
C23	1	100 pF		1206
C24	1	1 pF		1206
C25	1	100 pF		1206
C26	1	0.1 uF		1206
C27	1	100 uF	25 V	CAP100RP
C28	1	0.1 uF		1206
C29	1	0.1 uF		1206
C3	1	4.5-20 pF		CGKG27
C30	1	0.1 uF		1206
C301	1	0.1 uF		1206
C302	1	100 pF		1206
C303	1	470 uF	35 WV	CAP275RP650

C304	1	0.1 uF		1206
C31	1			1206
C33	1	1 pF		1206
C34	1	1 pF		1206
C35	1	1 pF		1206
C36	1	1 pF		1206
C37	1	0.1 uF		1206
C38	1	0.1 uF		1206
C39	1		NI	1206
C4	1	0.47 uF		1812
C40	1		NI	1206
C41	1		NI	1206
C44	1	0.1 uF		1206
C45	1	0.1 uF		1206
C46	1	100 pF		1206
C5	1	100 pF		1206
C6	1	0.1 uF		1206
C7	1	0.47 uF		1812
C8	1	100 uF	25 V	CAP100RP
C9	1	100 pF		1206
D1	1	9 V	D914	SOT23
D2	1	9.1 V	DIODEZ	D0214AC
D3	1	9 V		SOT23
D4	1		DIODEZ	D0214AC
FT100	1			FIL-TOKO
J1	1			THRU-HOLE
J2	1			THRU-HOLE
J3	1			THRU-HOLE
J4	1			THRU-HOLE
J5	1			THRU-HOLE
J6	1			THRU-HOLE
J7	1			THRU-HOLE
J8	1			THRU-HOLE
J9	1			THRU-HOLE
L1	1	0.22 uH		1210
L100	1	10 nH		1210
L2	1	0.22 uH		1210
L200	1	10 nH		1210
L201	1	12 nH		1210
L202	1	12 nH		1210
L203	1	10 nH		1210
L204	1	10 nH		1210
L3	1	0.22 uH		1210
L4	1	10 nH		1210
M1	1		PULSAR	MIXER-RF2
OSC1	1		MA06	MINI14SL
P1	1			FCONN-S
P2	1			FCONN-S

R10	1	180 Ohm		1206
R100	1	33 Ohm		1206
R101	1	51 Ohm		1206
R102	1	4.7 Ohm		1206
R103	1	91 Ohm		1206
R104	1	4.7 Ohm		1206
R11	1	33 Ohm		1206
R12	1	180 Ohm		1206
R13	1	220 Ohm	1/2 WATT	RES2010A
R14	1	0 Ohm		1206
R15	1	75 Ohm		1206
R16	1	10 Ohm		1206
R17	1	33 Ohm		1206
R18	1		NI	1206
R19	1		NI	1206
R2	1	10 kOhm		1206
R20	1	4.7 Ohm		1206
R200	1		NI	1206
R201	1		NI	1206
R202	1	0 Ohm		1206
R203	1		NI	1206
R204	1	0 Ohm		1206
R207	1	0 Ohm		1206
R208	1	110 Ohm	1 WATT	RES2010A
R209	1	0 Ohm		1206
R21	1	110 Ohm	1 WATT	RES2010A
R210	1		NI	1206
R211	1	0 Ohm		1206
R22	1	75 Ohm		1206
R3	1	220 Ohm	1/2 WATT	RES2010A
R4	1	47 kOhm		1206
R5	1			RES2010A
R6	1	910 Ohm		1206
R7	1	910 Ohm		1206
R8	1	0 Ohm		1206
R9	1	43 Ohm	1/2 WATT	RES2010A
U1	1		145200	TSSOP20
U2	1		ERA3	WW107
U201	1		ERA5	WW107
U3	1		ERA5	WW107
Y1	1	4000 MHz		XTL49

Power Supply Bill of Materials

Last Revision: 09.12.00

Component Reference	Quantity	Identification	Modifier	Package
C1	1	4700	35 V	CAP400RPHORZ
C10	1	0.1 uF		CAP250
C11	1	0.1 uF		CAP250
C12	1	0.1 uF		CAP250
C13	1	0.1 uF		CAP250
C14	1	1000	50 V	CAP275RP650
C15	1	0.1 uF		CAP250
C16	1	4700	16 VDC	CAP275RP650
C17	1	1000	50 V	CAP275RP650
C18	1	0.1 uF		CAP250
C19	1	0.1 uF		CAP250
C2	1	4700	35 V	CAP400RPHORZ
C3	1	0.1 uF		CAP250
C4	1	0.1 uF		CAP250
C5	1	0.1 uF		CAP250
C6	1	0.1 uF		CAP250
C7	1	2200	35 V	CAP275RP650
C8	1	0.1 uF		CAP250
C9	1	10000	25 VDC	CAP400RPHORZ
P1	1			CONHDR6
P2	1			CONHDR6
P3	1			CONHDR6
P4	1			CONHDR6
P5	1			CONHDR6
P6	1			CONHDR6
P7	1			CONHDR8
R1	1	2 kOhm		RES400
R2	1	240 Ohm		RES400
R4	1	5.6 kOhm		RES400
U1	1			BRIDGE
U2	1			RBRDG-RECT-403M
U3	1		LM317	T0-220-AB
U4	1		7824	T0-220-AB
U5	1		7812	T0-220-AB
U6	1		7805	T0-220-AB
U7	1			DIP6-2