

LNA Mother Board Parts List

Schematic: v1.0 8/22/2007

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Part	Value	Tol/Voltage/Note	Package	Part Number	Vendor
C1	0.01 X7R	16V min	0805		
C2	0.01 X7R	16V min	0805		
C3	0.01 X7R	16V min	0805		
C4	0.01 X7R	16V min	0805		
C5	0.01 X7R	16V min	0805		
C6	0.01 X7R	16V min	0805		
C7	0.01 X7R	16V min	0805		
C8	0.1 X7R	16V min	0805		
C9	0.1 X7R	16V min	0805		
C10	47uF X5R	10V min	1210		
C11	0.1 X7R	16V min	0805		
C12	0.1 X7R	16V min	0805		
C13	68uF Tantalum	25V	D (7343)	399-4650-1-ND	DigiKey
C14	68uF Tantalum	25V	D (7343)	399-4650-1-ND	DigiKey
C15	47uF X5R	10V min	1210		
C16	0.1 X7R	16V min	0805		
C17	0.1 X7R	16V min	0805		
C18	47uF X5R	10V min	1210		
C19	15pF NPO (C0G)	20% or better; 10V min	0805		
C20	15pF NPO (C0G)	20% or better; 10V min	0805		
C21	0.1 X7R	16V min	0805		
C22	0.1 X7R	16V min	0805		
C23	15pF NPO (C0G)	20% or better; 10V min	0805		
C24	15pF NPO (C0G)	20% or better; 10V min	0805		
C25	0.1 X7R	16V min	0805		
C26	0.1 X7R	16V min	0805		
C27	220pF NPO (C0G)	10% or better; 25V min	0805		
C28	0.1 X7R	16V min	0805		
C29	0.1 X7R	16V min	0805		
C30	0.1 X7R	16V min	0805		
C31	0.1 X7R	16V min	0805		
C32	0.1 X7R	16V min	0805		
C33	0.1 X7R	16V min	0805		
C34	0.1 X7R	16V min	0805		
D1	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D2	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D3	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D4	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D5	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D6	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D7	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D8	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D9	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D10	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D11	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D12	Si TVS Diode	16V Bidir Littelfuse	DO-214AB	SMAJ16CALFCT-ND	DigiKey
D13	Si TVS Diode	16V Bidir Littelfuse	DO-214AB	SMAJ16CALFCT-ND	DigiKey
D14	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D15	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D16	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D17	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey
D18	1N4148WX		SOD323	1N4148WXTMSCT-ND	DigiKey

Part	Value	Tol/Voltage/Note	Package	Part Number	Vendor
D19	1N4148WX		SOD323	1N4148WXTTPMSCT-ND	DigiKey
D20	1N4148WX		SOD323	1N4148WXTTPMSCT-ND	DigiKey
D21	1N4148WX		SOD323	1N4148WXTTPMSCT-ND	DigiKey
D22	Si TVS Diode	5.0V Unidir Littelfuse	DO-214AB	SMAJ5.0ALFCT-ND	DigiKey
D23	Si TVS Diode	7.0V Unidir Littelfuse	DO-214AB	SMAJ7.0ALFCT-ND	DigiKey
D24	Si TVS Diode	7.0V Unidir Littelfuse	DO-214AB	SMAJ7.0ALFCT-ND	DigiKey
D25	Si TVS Diode	5.0V Unidir Littelfuse	DO-214AB	SMAJ5.0ALFCT-ND	DigiKey
FB1	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB2	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB3	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB4	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB5	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB6	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB7	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB8	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB9	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB10	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB11	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB12	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB13	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB14	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB15	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB16	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB17	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
FB18	Ferrite Bead 120 Ohm	Murata BLM31PG121SN1	1206	490-1056-1-ND	DigiKey
J1	Hdr male 2-row 30-pin	Molex CGrid-III Vert Shrouded 90130-1230		WM8257-ND	DigiKey
	Wiring Harness mate to J1	Molex CGrid-III Con Housing 90142-0030		WM8046-ND	DigiKey
	Crimp terminals 22-24AWG	Molex 90119-2110		WM2559-ND	DigiKey
	Crimp terminals 26-28AWG	Molex 90119-2121		WM2561-ND	DigiKey
J2	Provision for jumper				
J3	Hdr fem 2-row 16-pin	Sullins	Thru-hole 0.1"	S7111-ND	DigiKey
J4	(combined with J3 into a single connector)				
J5	Hdr fem 1-row 10-pin	Sullins	Thru-hole 0.1"	S7043-ND	DigiKey
J6	25-pos hdr w/boss	HRS DF9A-25P-1V	SMT 1mm		DigiKey
J7	25-pos hdr w/boss	HRS DF9A-25P-1V	SMT 1mm		DigiKey
J8	25-pos hdr w/boss	HRS DF9A-25P-1V	SMT 1mm		DigiKey
J9	25-pos hdr w/boss	HRS DF9A-25P-1V	SMT 1mm		DigiKey
J10	Hdr fem 1-row 2-pin	Sullins	Thru-hole 0.1"	S7035-ND	DigiKey
L1	100uH 10% shielded	Panasonic ELJ-SA101K	1210	PCD1109CT-ND	DigiKey
PTC1	Resettable Fuse	60V .5A 60R050 Littelfuse	Radial 0.2"	576-060R0050U	Mouser
PTC2	Resettable Fuse	60V .3A 60R030 Littelfuse	Radial 0.2"	576-060R0030U	Mouser
PTC3	Resettable Fuse	60V .4A 60R040 Littelfuse	Radial 0.2"	576-060R0040U	Mouser
R1	5.6k 1/8W	any value within 5% of this	1206		
R2	5.6k 1/8W	any value within 5% of this	1206		
R3	5.6k 1/8W	any value within 5% of this	1206		
R4	5.6k 1/8W	any value within 5% of this	1206		
R5	5.6k 1/8W	any value within 5% of this	1206		
R6	5.6k 1/8W	any value within 5% of this	1206		
R7	5.6k 1/8W	any value within 5% of this	1206		
R8	5.6k 1/8W	any value within 5% of this	1206		
R9	3.3k 1/8W	any value within 5% of this	1206		

Part	Value	Tol/Voltage/Note	Package	Part Number	Vendor
R10	3.3k 1/8W	any value within 5% of this	1206		
R11	3.3k 1/8W	any value within 5% of this	1206		
R12	3.3k 1/8W	any value within 5% of this	1206		
R13	4.30k	0.1%	0805		
R14	5.10k	0.1%	0805		
R15	1.30k	0.1%	0805		
R16	6.20k	0.1%	0805		
R17	1.50k	0.1%	0805		
R18	4.70k	0.1%	0805		
R19	4.7k	any value within 5% of this	0805		
R20	5.6k 1/8W	any value within 5% of this	1206		
R21	33k	any value within 5% of this	0805		
R22	33k	any value within 5% of this	0805		
R23	22k	any value within 5% of this	0805		
R24	33k	any value within 5% of this	0805		
R25	33k	any value within 5% of this	0805		
R26	33k	any value within 5% of this	0805		
R27	33k	any value within 5% of this	0805		
R28	1k	any value within 5% of this	0805		
R29	10k	any value within 5% of this	0805		
R30	10k	any value within 5% of this	0805		
R31	10k	any value within 5% of this	0805		
R32	10k	any value within 5% of this	0805		
R33	10k	any value within 5% of this	0805		
R34	10k	any value within 5% of this	0805		
R35	10k	any value within 5% of this	0805		
R36	10k	any value within 5% of this	0805		
U1	LT1963AET	Pos Reg Adjustable 1.5A	TO-220-5	LT1963AET-ND	DigiKey
U2	LT1963AET	Pos Reg Adjustable 1.5A	TO-220-5	LT1963AET-ND	DigiKey
U3	LT1175CT	Neg Reg Adjustable 0.5A	TO-220-5	LT1175CT-ND	DigiKey
U4	MOCD223-M	Dual Optoisolator	SOIC-8	MOCD223M-ND	DigiKey
U5	MOCD223-M	Dual Optoisolator	SOIC-8	MOCD223M-ND	DigiKey
U6	MOCD223-M	Dual Optoisolator	SOIC-8	MOCD223M-ND	DigiKey
U7	MOCD223-M	Dual Optoisolator	SOIC-8	MOCD223M-ND	DigiKey
U8	MAX4052ACSE	Dual 4-channel Analog Mux	SOIC-16	MAX4052ACSE	MAXIM
U9	MAX4052ACSE	Dual 4-channel Analog Mux	SOIC-16	MAX4052ACSE	MAXIM
U10	AD8674ARZ	Quad precision OpAmp	SOIC-14	AD8674ARZ-ND	DigiKey
U11	ADR421ARZ	2.5V Reference	SOIC-8	ADR421ARZ-ND	DigiKey
U12	ADR293GRZ	5.0V Reference	SOIC-8	ADR293GRZ-ND	DigiKey
U13	74AC138SC	1 of 8 Decoder	SOIC-16	74AC138SC-ND	DigiKey
U14	ADM707ARZ	Power-on Reset Controller	SOIC-8	ADM707ARZ-ND	DigiKey