

LNA Daughter Board Parts List
Schematic: v1.1a 2/22/2008

Part 1 of 4

Board: Quad v1.1a 2/22/08

Resistors

Part	Value	*Tol	Note	Package	Part Number	Vendor
R1	91Ω	5%	may be carbon film or MOX	.5W Axial		
R2	499Ω	1%	thin-film (metal-film)	0805		
R3	10.0k	1%	thin-film (metal-film)	0805		
R4	10.0k	1%	thin-film (metal-film)	0805		
R5	470Ω	10%	thin-film (metal-film)	0805		
R6	1.00Ω	1%	thin-film (metal-film)	0805		
R7	10k	10%	thin-film (metal-film)	0805		
R8	6.8k	10%	thin-film (metal-film)	0805		
R9	10k	10%	thin-film (metal-film)	0805		
R10	1M	10%	may be thick-film	0805		
R11	10.0k	1%	thin-film (metal-film)	0805		
R12	20.0k	1%	thin-film (metal-film)	0805		

* If Tol = 10%, then any standard 5% or 1% value within 10% of the value shown may be substituted

Summary

Quan	Value	*Tol	Note	Package	Part Number	Vendor
4	1.00Ω	1%	thin-film (metal-film)	0805		
4	91Ω	5%	may be carbon film or MOX	.5W Axial		
4	470Ω	10%	thin-film (metal-film)	0805		
4	499Ω	1%	thin-film (metal-film)	0805		
4	6.8k	10%	thin-film (metal-film)	0805		
8	10k	10%	thin-film (metal-film)	0805		
12	10.0k	1%	thin-film (metal-film)	0805		
4	20.0k	1%	thin-film (metal-film)	0805		
4	1M	10%	may be thick-film	0805		

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Capacitors

Part	Value	Type	Tol	Volt (min)	Package	Part Number	Vendor
C1	22u	*X5R	20%	10	1210/1206		
C2	2.2u	X5R	20%	10	1206/0805		
C3	0.1	X7R	20%	10	0805		
C4	0.1	X7R	20%	10	0805		
C5	0.01	X7R	20%	10	0805		
C6	0.1	X7R	20%	10	0805		
C7	0.1	X7R	20%	10	0805		
C8	0.1	X7R	20%	10	0805		
C9	0.1	X7R	20%	10	0805		
C10	0.1	X7R	20%	10	0805		

* Low-ESR, 10V (min) tantalum may be substituted. Package may be B/C/D/3528/6032/7343/3216

Summary

Quan	Value	Type	Tol	Volt (min)	Package	Part Number	Vendor
4	0.01	X7R	20%	10	0805		
28	0.1	X7R	20%	10	0805		
4	2.2u	X5R	20%	10	1206/0805		
4	22u	*X5R	20%	10	1210/1206		

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Integrated Circuits

Part	Type	Description	Package	Part Number	Vendor
U1	LT3020EMS8	Regulator, Pos, Adj, 0.1A	MSOP-8	57M7946	Newark
U2	AD620ARZ	Instrumentation Amp	SOIC-8	AD620ARZ-ND	DigiKey
U3	AD712KRZ	Dual OpAmp	SOIC-8	AD712KRZ-ND	DigiKey
U4	WMS7171050	Dig pot, Buf, 100 taps, 50K	MSOP-8	WMS7171050M-ND	DigiKey
U5	WMS7101050	Dig pot, 256 taps, 50K	MSOP-8	WMS7101050M-ND	DigiKey

Diodes

Part	Type	Description	Package	Part Number	Vendor
D1	LED	50mA continuous Red	T1-3/4 Rad	160-1498-ND	DigiKey
D2	Zener	3.3V 0.3W	SOD-323	568-3826-1-ND	DigiKey
D3	Zener	3.3V 0.3W	SOD-323	568-3826-1-ND	DigiKey

Summary

Quan	Type	Description	Package	Part Number	Vendor
4	LT3020EMS8	Regulator, Pos, Adj, 0.1A	MSOP-8	57M7946	Newark
4	AD620ARZ	Instrumentation Amp	SOIC-8	AD620ARZ-ND	DigiKey
4	AD712KRZ	Dual OpAmp	SOIC-8	AD712KRZ-ND	DigiKey
4	WMS7171050	Dig pot, Buf, 100 taps, 50K	MSOP-8	WMS7171050M-ND	DigiKey
4	WMS7101050	Dig pot, 256 taps, 50K	MSOP-8	WMS7101050M-ND	DigiKey
4	LED	50mA continuous Red	T1-3/4 Rad	160-1498-ND	DigiKey
8	Zener	3.3V 0.3W	SOD-323	568-3826-1-ND	DigiKey

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Connectors

Part	Manufacturer Description	Manufacturer	Part Number	Vendor
J1	25-pos Fem Hdr w/boss 1mm SMT DF9A-25S-1V	Hirose	H1645-ND or H10377CT-ND	DigiKey

Summary

Quan	Manufacturer Description	Manufacturer	Part Number	Vendor
4	25-pos Fem Hdr w/boss 1mm SMT DF9A-25S-1V	Hirose	H1645-ND or H10377CT-ND	DigiKey