



Parts List for the LNA-100

Name	Value	Description	Farnell	Mouser
Capacitors				
C1, C5, C9, C29	10nF	Polypropylene		505-FKP2C021001G00HF
C2, C20, C21, C22, C30, C31, C38, C43, C51	100nF	Ceramic Capacitors	2309020	
C3, C4, C8, C14, C19	0.68µF	PET Film Capacitor		505-MKS20.68/63/5
C6, C7, C17, C18	2.2µF	Ceramic Capacitors	2529490	
C10, C11, C12, C13, C27, C28, C32, C33, C35, C36	1000µF 25V	Aluminum Electrolytic Capacitor		647-UKA1E102MPD1TD
C15, C16, C23	470pF	Polypropylene		505-FKP2C021001G00HF
C24	455 pF (220+220+15) or 470 pF (see text)	Polypropylene		
C25	3.3nF	Polypropylene		505-FKP23300/63/2.5
C26, C34	4.7nF	Polypropylene		505-FKP2C014701D00HF
C37	120µF, 35V	Aluminum Electrolytic Capacitor		
C40	100nF	Polypropylene		667-ECW-F2104HAB
C41, C55	22µF, 25V	Aluminum Electrolytic Capacitors		
C42, C46	100pF	Ceramic Capacitor		
C44	68µF	Aluminum Electrolytic Capacitor		
C45	100µF, 50V	Bipolar Electrolytic Capacitor		647-UEP1H101MPD
C47, C48, C49, C52, C53	47uF, 16V	Bipolar Electrolytic Capacitor		647-UVP1C470MED
C50	1.5nF	Film Capacitor		
C54	100µF, 35V	Aluminum Electrolytic Capacitor		647-UVR1V101MED
Diodes				
D1, D2	1N5819	Schottky Diode		863-1N5819RLG
D3, D4	FDH333	Low leakage Diode		512-FDH333TR
Miscellaneous				
F1, F2	100mA, time delay	PCB Mount Fuse	2834869	
FB1, FB2, FB3		Inductor, ferrite bead		
On_Off, VDC (on PCB)	Headers	Pins 4 Way 1 Row		538-22-23-2041
On_Off, VDC (on cable)	Headers	Socket 4 way 1 Row		538-22-01-2047
Knob black 18mm		2 pieces		450-AA180
Cap for knob, Grey, 10.8mm		2 pieces		450-CP185
BNC Jack connector		3 pieces	2396249	571-1-1337451-0
Metal Enclosure	45mm x 108.5mm x 220 mm	Aluminum		1459973
P_LED	LED 3mm	Red, for power-on indication		1581113
Power Supply Connector	DIN 5 PIN MALE	For the cable		568-NYS322G
Power Supply Connector	DIN 5 PIN FEMALE	Placed on back panel		
Meter Scale switch	Toggle Switch	SPDT, Panel mount		612-100-A1111
Op-Amps				
IC1, IC2, IC3, IC5	OPA2134	Operational Amplifier		
IC4	LT1028C	Operational Amplifier		
IC6	AD736JNZ	True RMS-DC Converter		584-AD736JNZ
Resistors				
R1, R2	2.4kΩ	0.25W, 1%		
R3, R4, R25, R41, R56	100Ω	0.25W, 1%		
R5, R9, R15	16kΩ	0.25W, 1% or better		
R6, R10	11kΩ	0.25W, 1% or better		
R7, R8, R12, R13	4.7Ω	0.25W, 1%		
R11	8.2kΩ	0.25W, 1% or better		
R14, R21	12kΩ	0.25W, 1% or better		
R16, R19, R23, R24	1kΩ	0.25W, 1%		
R17, R18, R27, R32, R35, R44	10kΩ	0.25W, 1% or better		
R20	6.8kΩ	0.25W, 1% or better		
R22	33kΩ	0.25W, 1% or better		
R26	3.9kΩ	0.25W, 1% or better		
R28, R29, R30	180kΩ	0.25W, 1% or better		
R31	9.1kΩ	0.25W, 1% or better		
R33, R34	10Ω	0.25W, 1%		
R36	2.2kΩ	0.25W, 1% or better		
R37, R46	1.8kΩ	0.25W, 1% or better		
R38	68kΩ	0.25W, 1% or better		
R39	33MΩ	0.25W, 1%		
R40, R48	51Ω	0.25W, 1%		
R42, R43, R45, R50, R51	220kΩ	0.25W, 1%		
R47	3.6kΩ	0.25W, 1% or better		
R49, R52, R53	200Ω	0.25W, 1% or better		
R54	5.6kΩ	0.25W, 1% or better		
R55	7.5kΩ	0.25W, 1% or better		
Roffset	1MΩ	Trimmer 3296Y top adj		652-3296Y-1-105LF
Switches				
S1	Rotary Switch	2 POLE 4 POS D SHAFT		105-SR10010F-24NS
S2	Rotary Switch	1 POLE 6 POS D SHAFT		105-SR10010F-16NS
Transistors				
Q1	ZTX851	Transistor		522-ZTX851STZ
Q2	ZTX951	Transistor		522-ZTX951