



Direct Box (Active) Bill of Materials

Version 2019June30

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Resistors:

Resistor ID	Value	3-band Marking	4-band Marking
R1	150k	 brown-green-yellow	 brown-green-black-orange
R2	1k	 brown-black-red	 brown-black-black-brown
R3 (potentiometer)	10k Log		
R4	22k	 red-red-orange	 red-red-black-red
R5	22k	 red-red-orange	 red-red-black-red
R6	51 ohm	 green-brown-black	 green-brown-black-gold
R7	51 ohm	 green-brown-black	 green-brown-black-gold
R8	100k	 brown-black-yellow	 brown-black-black-orange
R9	100k	 brown-black-yellow	 brown-black-black-orange

Capacitors:

Capacitor ID	Value	Type	Possible Marking
C1 (C1a and C1b are alternatives to C1)	10 μ F	Tantalum or Aluminum Electrolytic Non-Polar	10 μ F N.P.
C1a	10 μ F	Tantalum or Aluminum Electrolytic	10 μ F
C1b	10 μ F	Tantalum or Aluminum Electrolytic	10 μ F
C2	10 μ F	Tantalum or Aluminum Electrolytic	10 μ F
C3	100pF	Ceramic	100pF
C4	100pF	Ceramic	100pF
C5 (C5a and C5b are alternatives to C5)	10 μ F	Tantalum or Aluminum Electrolytic Non-Polar	10 μ F N.P.



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C5a	10 μ F	Tantalum or Aluminum Electrolytic	10 μ F
C5b	10 μ F	Tantalum or Aluminum Electrolytic	10 μ F
C6 (C6a and C6b are alternatives to C6)	10 μ F	Tantalum or Aluminum Electrolytic Non-Polar	10 μ F N.P.
C6a	10 μ F	Tantalum or Aluminum Electrolytic	10 μ F
C6b	10 μ F	Tantalum or Aluminum Electrolytic	10 μ F
C7	10 μ F	Tantalum or Aluminum Electrolytic	10 μ F
C8	10 μ F	Tantalum or Aluminum Electrolytic	10 μ F

Potentiometers:

Part ID	Value	Type
R7 - Gain	10k	Log (Audio) Taper Potentiometer

Other:

Part ID	Part Name
IC1	MAX1044 Charge Pump
IC2	LM833 Opamp
Q1	2n3906
Sw1	DPDT on-on Toggle Switch
Sw2	SPST Toggle Switch
J1	Stereo quarter-inch jack
J2	Male XLR Jack (plastic casing)
J3	DC Jack
B1	9 volt battery (not included in the Kit)
	9v battery snap, Printed Circuit Board 24 gauge stranded wire, Enclosure, Knobs