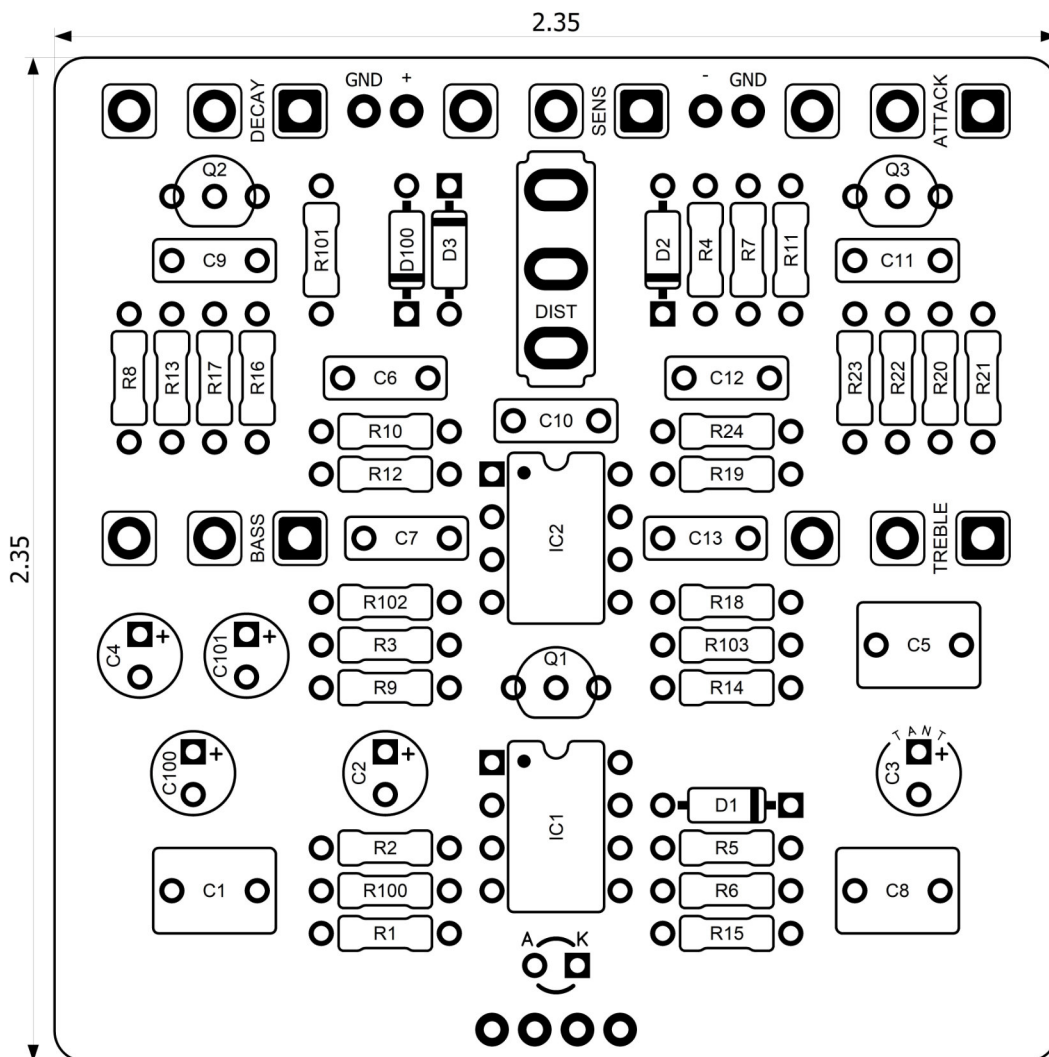




Lowballer Twin Envelope Filter

Revised 5/12/22



CONTROLS AND FEATURES

- Attack
- Sensitivity
- Decay
- Treble
- Distortion (Toggle switch)
- Bass

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LOCATION	VALUE	TYPE	NOTES
R1	2M2	Resistor, 1/4W	
R2	2K7	Resistor, 1/4W	
R3	220K	Resistor, 1/4W	
R4	4K7	Resistor, 1/4W	
R5	220K	Resistor, 1/4W	
R6	2M2	Resistor, 1/4W	
R7	100R	Resistor, 1/4W	
R8	47K	Resistor, 1/4W	
R9	3K3	Resistor, 1/4W	
R10	4K7	Resistor, 1/4W	
R11	100K	Resistor, 1/4W	
R12	470K	Resistor, 1/4W	
R13	470K	Resistor, 1/4W	
R14	2K7	Resistor, 1/4W	
R15	220K	Resistor, 1/4W	
R16	47K	Resistor, 1/4W	
R17	22K	Resistor, 1/4W	
R18	470K	Resistor, 1/4W	
R19	470K	Resistor, 1/4W	
R20	47K	Resistor, 1/4W	
R21	4K7	Resistor, 1/4W	
R22	22K	Resistor, 1/4W	
R23	2K7	Resistor, 1/4W	
R24	27K	Resistor, 1/4W	
R100	4K7	Resistor, 1/4W	
R101	47R	Resistor, 1/4W	
R102	47K	Resistor, 1/4W	
R103	47K	Resistor, 1/4W	
C1	47n	Film capacitor, 7.2 x 2.5mm	
C2	10u	Electrolytic capacitor, 5mm	
C3	470n (0.47uF)	Tantalum capacitor	
C4	4u7	Electrolytic capacitor, 5mm	
C5	220n	Film capacitor, 7.2 x 5.0mm	
C6	47n	Film capacitor, 7.2 x 2.5mm	
C7	560p	Ceramic capacitor	
C8	220n	Film capacitor, 7.2 x 5.0mm	
C9	22n	Film capacitor, 7.2 x 2.5mm	
C10	22n	Film capacitor, 7.2 x 2.5mm	
C11	4n7	Film capacitor, 7.2 x 2.5mm	
C12	4n7	Film capacitor, 7.2 x 2.5mm	
C13	560p	Ceramic capacitor	
C100	100u	Electrolytic capacitor, 5mm	
C101	10u	Electrolytic capacitor, 5mm	
IC1	LM1458	Dual op-amp, DIP8	
IC2	JRC4558	Dual op-amp, DIP8	
		<i>Continued on next page...</i>	



Lowballer

Parts List (Page 2 of 2)

[illegible]



Lowballer Twin Envelope Filter

Schematic Diagram

