

PedalPCB

ElectroVibe Mini

Revised 11/30/21


IMPORTANT NOTES

The PedalPCB ElectroVibe Mini utilizes a pair of stacked PCBs to remain compact and isolate the audio path from the lamp and LFO circuitry.

Because of this, body height must be considered when selecting components, specifically electrolytic and box film capacitors. Links are provided below for suppliers for these components.

Maximum component body height is 7mm for both PCBs. This is typically not a concern for resistors, diodes, transistors, or socketed ICs.

Component	Supplier URL
1uF	https://www.mouser.com/ProductDetail/647-USR1H010MDD1TP
10uF	https://www.mouser.com/ProductDetail/667-ECE-A1EKA100I
47uF	https://www.mouser.com/ProductDetail/647-USR1E470MDD1TP
100uF	https://www.mouser.com/ProductDetail/80-ESS107M025AE2AA
220nF	https://www.taydaelectronics.com/0-22uf-100v-5-polyester-film-box-type-capacitor.html

LOCATION	VALUE	TYPE	NOTES
R8	4K7	Resistor, 1/4W	
R11	3K3	Resistor, 1/4W	
R12	2M2	Resistor, 1/4W	
R14	4K7	Resistor, 1/4W	
R15	4K7	Resistor, 1/4W	
R19	4K7	Resistor, 1/4W	
R22	47K	Resistor, 1/4W	
R24	4K7	Resistor, 1/4W	
R26	47K	Resistor, 1/4W	
R27	100R	Resistor, 1/4W	
R29	47R	Resistor, 1/4W	
R34	220K	Resistor, 1/4W	
R35	220K	Resistor, 1/4W	
R36	4K7	Resistor, 1/4W	
C7	1u	Electrolytic capacitor, 5mm	
C8	1u	Electrolytic capacitor, 5mm	
C9	1u	Electrolytic capacitor, 5mm	
C11	100u	Electrolytic capacitor, 5mm	
C14	10u	Electrolytic capacitor, 5mm	
C16	10u	Electrolytic capacitor, 5mm	
C17	47u	Electrolytic capacitor, 5mm	
C19	100n	Film capacitor, 7.2 x 2.5mm	
C22	100u	Electrolytic capacitor, 5mm	
C27	100n	Film capacitor, 7.2 x 2.5mm	
D1	1N4148	Signal diode, DO-35	
D2	1N4148	Signal diode, DO-35	
D3	1N5817	Schottky diode, DO-41	
D4	1N5817	Schottky diode, DO-41	
D5	1N5817	Schottky diode, DO-41	
Q1	2N5088	BJT transistor, NPN TO-92	
Q2	2N5088	BJT transistor, NPN TO-92	
Q3	2N5088	BJT transistor, NPN TO-92	
Q4	2N5088	BJT transistor, NPN TO-92	
IC1	L78L12	Voltage regulator, +12V	
IC4	LT1054	Charge pump IC, DIP8	
LMP1	7371	Incandescent lamp (12V, 40mA)	
VOLUME	B100K	16mm right-angle PCB mount pot	
SPEED	C100K DUAL	16mm right-angle PCB mount pot	Dual-ganged potentiometer
INTENSITY	B50K	16mm right-angle PCB mount pot	
		<i>Continued on next page...</i>	

LOCATION	VALUE	TYPE	NOTES
CV	SPDT	Toggle switch, SPDT	2-position (ON/ON)
BIAS	250K	Trimmer potentiometer, 3362P type	
GAIN	500R	Trimmer potentiometer, 3362P type	

QUANTITY	DESCRIPTION
2	3-pin Female Header (2.54mm spacing)
2	3-pin Male Header (2.54mm spacing)
1	6-pin Male Header (2.54mm spacing)

LOCATION	VALUE	TYPE	NOTES
R1	22K	Resistor, 1/4W	
R2	3K3	Resistor, 1/4W	
R3	4K7	Resistor, 1/4W	
R4	47K	Resistor, 1/4W	
R5	1K2	Resistor, 1/4W	
R6	1M	Resistor, 1/4W	
R7	6K8	Resistor, 1/4W	
R9	1M	Resistor, 1/4W	
R10	47K	Resistor, 1/4W	
R13	100K	Resistor, 1/4W	
R16	100K	Resistor, 1/4W	
R17	100K	Resistor, 1/4W	
R18	220K	Resistor, 1/4W	
R20	47K	Resistor, 1/4W	
R21	4K7	Resistor, 1/4W	
R23	100K	Resistor, 1/4W	
R25	47K	Resistor, 1/4W	
R28	4K7	Resistor, 1/4W	
R30	4K7	Resistor, 1/4W	
R31	100K	Resistor, 1/4W	
R41	4K7	Resistor, 1/4W	
R42	100K	Resistor, 1/4W	
R43	47K	Resistor, 1/4W	
R44	4K7	Resistor, 1/4W	
R45	4K7	Resistor, 1/4W	
R46	100K	Resistor, 1/4W	
R47	4K7	Resistor, 1/4W	
R48	100K	Resistor, 1/4W	
R49	47K	Resistor, 1/4W	
R50	4K7	Resistor, 1/4W	
R51	4K7	Resistor, 1/4W	
R52	100K	Resistor, 1/4W	
R53	4K7	Resistor, 1/4W	
R54	100K	Resistor, 1/4W	
R55	47K	Resistor, 1/4W	
R56	68K	Resistor, 1/4W	
R57	22K	Resistor, 1/4W	
C1	1u	Electrolytic capacitor, 5mm	7mm maximum body height
C2	1u	Electrolytic capacitor, 5mm	
C3	330p	Ceramic capacitor	
C4	1u	Electrolytic capacitor, 5mm	
C5	1u	Electrolytic capacitor, 5mm	
C6	1u	Electrolytic capacitor, 5mm	
C10	1u	Electrolytic capacitor, 5mm	
C12	15n	Film capacitor, 7.2 x 2.5mm	
		<i>Continued on next page...</i>	

ElectroVibe Mini

Audio PCB (Page 2 of 2)

LOCATION	VALUE	TYPE	NOTES
C13	1u	Electrolytic capacitor, 5mm	7mm maximum body height
C15	1u	Electrolytic capacitor, 5mm	
C18	220n	Film capacitor, 7.2 x 2.5mm	
C20	1u	Electrolytic capacitor, 5mm	
C21	1u	Electrolytic capacitor, 5mm	
C23	1u	Electrolytic capacitor, 5mm	
C24	1u	Electrolytic capacitor, 5mm	
C25	470p	Ceramic capacitor	
C26	1u	Electrolytic capacitor, 5mm	
C28	4n7	Film capacitor, 7.2 x 2.5mm	
Q1	2N5088	BJT transistor, NPN TO-92	
Q2	2N5088	BJT transistor, NPN TO-92	
Q3	2N5088	BJT transistor, NPN TO-92	
Q4	2N5088	BJT transistor, NPN TO-92	
Q5	2N5088	BJT transistor, NPN TO-92	
Q6	2N5088	BJT transistor, NPN TO-92	
Q7	2N5088	BJT transistor, NPN TO-92	
Q8	2N5088	BJT transistor, NPN TO-92	
Q9	2N5088	BJT transistor, NPN TO-92	
Q10	2N5088	BJT transistor, NPN TO-92	
LDR1		Light Dependent Resistor	(7530, 7532, 9203, or similar)
LDR2		Light Dependent Resistor	(7530, 7532, 9203, or similar)
LDR3		Light Dependent Resistor	(7530, 7532, 9203, or similar)
LDR4		Light Dependent Resistor	(7530, 7532, 9203, or similar)