

## Arduino Audio Meter - Bill of Materials

Reference	Description	Manufacturer/Mouser PN	Manufacturer
<b>Units Resistors</b>			
6 R5,R6,R8,R9,R10,R11	10K $\Omega$ Res 1%, 1/4W	MFR-25FRF52-10K	Yaego
2 R2,R4	470 $\Omega$ Res 1%, 1/4W	MFR-25FRF52-470R	Yaego
1 R3	100K $\Omega$ Res 1%, 1/4W	MFR-25FRF52-100K	Yaego
1 R1	1M $\Omega$ Res 1%, 1/4W	MFR-25FRF52-1M	Yaego
1 RV1	100K potentiometer	RK09K1130C94 (or RK09D1130F30B104 or PTV09A4025UB104)	Alps
<b>Capacitors</b>			
6 C1,C7,C9,C11,C13,C15	100nF	SR211C104KARTR1	AVX
2 C3,C4	270pF	594-K332K15X7RF5TL2	Vishay
8 C2,C5,C6,C8,C10,C12,C14,C16	10uF	667-ECE-A1HKA100B	Panasonic
<b>Diodes</b>			
1 D1	1N5817 (or 1N4148, 1N4001)	511-1N5817	STMicroE
4 D2, D3, D4, D5	8x8 LED Matrix (38x38mm) common anode.	1588BS (eBay, Amazon, Aliexpress)	Various
<b>Semiconductors</b>			
1+1 U1 + socket	MCP6002 (or TL972)	579-MCP6002-I/P	Microchip
4 U2,U3,U4,U5	MAX7219	700-MAX7219CNG	Maxim
1 U6	VXO7805-1000	490-VXO7805-1000	CUI
<b>Other</b>			
1 ENC1 (Encoder)	Encoder with Switch Button	EC11E15244G1 (or RE111F-41B3-25F-15P a bit longer)	Alpha
1 J1	2.1mm DC Power Jack	163-4302-E	Various
2 J2, J3	1/4 Stereo Jack	568-NYS2343	Rean
1 Enclosure	Hammond 1590BBS	Any color from 1590BBS series	Hammond
1 Board to board connecors	Pin header 40 pins 2.54	710-61304011121	Various
1 Interconnection wire (40cm)	22 AWG solid core wire	-	Various
2 Knobs	Davies 1510 model	1510AH	Davies
1 PCB + Acrylic cover	Printed Circuit Board	Arduino Audio Meter	ElectroSmash
4+8 4x M2.5x12mm Nylon Spacers	Spacers and screws	Hardware store	Various
8x M2.5x8mm screws			