

Audiokiller BOM list for

Hi-Fi amplifier with MOSFET field transistors on the output 2021

Details

<https://electroclub.info/https://electroclub.info/invest/mosfet-amp-2020/>

Symbol	Type (producer)	Typical	Quantity	Note
R1, R8, R11	Metal-film, power 0.125 W, accuracy 5%	1 kOhm	3	You can use 1% accuracy
R2	Metal-film, power 0.125 W, accuracy 5%	47 kOhm	1	You can use 1% accuracy
R3, R4, R14	Metal-film, power 0.125 W, accuracy 1%	120 Ohm		You can use 5% accuracy
R5, R6, R17	Metal-film, power 0.125 W, accuracy 1%	68 Ohm	3	You can use 5% accuracy, but you can select the R5=R6
R7, R19, R22	Metal-film, power 0.125 W, accuracy 5%	240 Ohm	3	You can use 1% accuracy
R9	Metal-film, power 0.125 W, accuracy 1%	1.5 kOhm	1	You can use 5% accuracy, but for a stereo amplifier select the same resistance in both channels
R10, R21	Metal-film, power 0.125 W, accuracy 1%	20 kOhm	2	R21 selected on schedule on the site to get the required output resistance. You can use 5% accuracy, but for a stereo amplifier select R21 the same resistance in both channels.
R12, R15	Metal-film, power 0.125 W, accuracy 5%	4.7 kOhm	2	You can use 1% accuracy
R13	Metal-film, power 0.125 W, accuracy 5%	330 Ohm	1	You can use 1% accuracy
R16	Sub-strong resistor (trimmer)	1 kOhm	1	Preferably multi-turn
R18, R23	Metal-film, power 0.125 W, accuracy 5%	22 Ohm	2	You can use 1% accuracy
R20	Metal-film, power 0.125 W, accuracy 1%	47 kOhm	1	Using a 0.5 W resistor will slightly improve the sound quality of the amplifier. You can use 5% accuracy, but for a stereo amplifier select the same resistance in both channels.
R24, R25, R27	"Ceramic" S-P 5 W	0.15 Ohm	3	You can use any type of wire resistor with specified resistance and power
R26	Metal-film, power 1-2 W, accuracy 5%	10 Ohm	1	2 watt is more reliable
C1	Film cap MKT (MKP), Epcos, Wima, Vishay	0.47 μF (0.22-0.68 μF)	1	High-quality capacitor with PETP, or polypropylene dielectric (slightly better). Selected on schedule on the site to get the required lower boundary frequency.

C2	Ceramic at 50V, Murata, Epcos, Wima, Vishay	750 pF or other capacity, see article on the site	1	The TCC is NPO (COG) Capacity depends on the resistance of the volume control and is selected on schedule on the site!!!
C3	Ceramic at 50-100V, Murata, Epcos, Wima, Vishay	100 pF (220 pF for subwoofer) 50-100V	1	The TCC is NPO (COG)
C4	Electrolytic non-polar (bipolar – class - NP) Jamicon, Epcos, Samwha, Panasonic, Vishay	220 μ F 25 V	1	10 mm diameter
C5, C6	Electrolytic Jamicon, Epcos, Samwha, Panasonic, Vishay	220 μ F 50-63 V	2	10 mm diameter
C7	Ceramic at 50-100V, Murata, Vishay	33 pF 50-100 V	1	The TCC is NPO (COG)
C8, C11	Film cap MKT (PETP), Epcos, Wima, Vishay	0.68 μ F (0.47-1.5 μ F) 63-100 V	2	Distance between 5, 7.5 or 10 mm
C10	Film cap MKT (PETP), Epcos, Wima, Vishay	0.1 μ F 100-250 V		Distance 10 mm
C9, C12	Electrolytic cap, Jamicon, Epcos, Samwha, Panasonic, Elna, Nichicon, Vishay	1000 μ F, 50-63 V	2	1. Diameter 13 or 16 mm. 2. Low ESR capacitor is more preferable
VT1, VT2, VT7	2N5401		3	No transistors are recommended to be replaced by other types
VT3, VT4, VT5, VT6	2N5551		4	No transistors are recommended to be replaced by other types
VT8	2SA1930		1	No transistors are recommended to be replaced by other types
VT9	2SD669		1	Any modern high-quality NPN transistor in the case of TO126
VT10	2SC5171		1	No transistors are recommended to be replaced by other types
VT11	IRFP240		1	IRFP240 Transistors VT11 and VT12 change pairs
VT12	IRFP9240		1	IRFP9240