

BOM for Class-D amplifier

Nr.	Designator	Package	Quantity	Designation
1	Q1,Q2	TO-92_Inline_Narrow_Oval	2	2N5401
2	L1	Inductor_T106-2	1	22uH
3	R2	Resistor_Horizontal_RM10mm	1	2k2
4	U4	DIP-14_W7.62mm_LongPads	1	IR2110
5	U3	TO-220	1	LM7805CT
6	U2	DIP-8_W7.62mm_LongPads	1	LM393AP
7	U1	DIP-8_W7.62mm_LongPads	1	LMC555CN
8	R16,R15	Resistor_Horizontal_RM10mm	2	10
9	R14,R13	Resistor_Horizontal_RM10mm	2	6.8k
10	R11,R10	Resistor_Horizontal_RM10mm	2	10k
11	R9,R8,R7,R6	Resistor_Horizontal_RM10mm	4	1k
12	R5,R4	Resistor_Horizontal_RM15mm	2	1K-2W
13	R3	Resistor_Horizontal_RM10mm	1	3.3k
14	R1	Resistor_Horizontal_RM10mm	1	330k
15	R12	Resistor_Vertical_RM5mm	1	10k
16	Q5,Q4	TO-220	2	IRF540N
17	Q3	TO-220_Neutral123_Vertical	1	BC241C
18	P1,P2,P3,P4,P5	Blade_Connector_6.3mm	2	-
19	F2,F1	Fuseholder5x20_horiz_open_inline	2	6A
20	D8,D7,D5,D4	Diode_DO-35_SOD27_Horizontal_RM10	4	1N4148
21	D6	Diode_DO-41_SOD81_Horizontal_RM10	1	MUR120
22	D3	Diode_DO-41_SOD81_Horizontal_RM10	1	zener - 12V
23	D2,D1	Diode_DO-41_SOD81_Horizontal_RM10	2	zener - 5V1
24	C18,C15	C_Rect_L18_W11_H19_P15	2	470nF
25	C17,C13,C12	C_Rect_L13_W4_P10	3	220nF
26	C10	C_Radial_D5_L11_P2	1	22uF
27	C9,C8,C7,C6,C5	C_Radial_D5_L11_P2	6	47uF
28	C3,C1	C_Rect_L7_W2_P5	2	1nF
29	C2	C_Radial_D5_L11_P2	1	10uF
30	C11	C_0805_HandSoldering	1	100nF
31	M3	MountingHole_3.2mm_M3	4	M3 Screw
Resistor values are in Ω . K = 1000. All are 1/4W except R4, R5 (2W)				