

1000W Power MOS-FET Amplifier -- Bill Of Materials

Item	Qty for 1 PCB	Reference	Description
1	4	C1,C16,C25,C26	Capacitor El. 100uF/16V
2	2	C2,C17	Capacitor El. 100uF/80-100V
3	2	C3,C18	Capacitor El. 470uF/80-100V
4	2	C20,C4	Capacitor El. 1000uF/80-100V
5	3	C5,C15,C19	Capacitor 0.22uF/100V (MKP)
6	3	C6,C8,C14	Capacitor 1uF/50V
7	1	C7	Capacitor 3.3uF/63V (MKS)
8	1	C9	Capacitor 10pF/100V
9	2	C10,C13	Capacitor El. 220uF/16V
10	1	C11	Capacitor 10nF/50V
11	1	C12	Capacitor 0.22uF/100V (MKP)
12	4	C21,C22,C23,C24	Capacitor 100nF/100V
13	5	D1,D3,D17,D22,D23	Diode 1N4007
14	8	D2,D4,D5,D6,D18,D19,D20,D21	Led 3mm Green
15	6	D7,D8,D9,D14,D15,D16	Diode Zener 6.2V/0.5W
16	4	D10,D11,D12,D13	Diode 1N4148
17	2	J4,J5	Header 2.54mm pitch
18	6	Q1,Q2,Q8,Q14,Q15,Q18	Transistor PNP 2SA1085 (2SA970)
19	5	Q3,Q4,Q5,Q6,Q7	MOSFET N Channel IRFP240
20	6	Q9,Q12,Q13,Q19,Q25,Q26	Transistor NPN 2SC2547 (2SC2240)
21	2	Q16,Q10	MOSFET P Channel IRF9620
22	2	Q11,Q17	MOSFET N Channel IRF620
23	5	Q20,Q21,Q22,Q23,Q24	MOSFET P Channel IRFP9240
			HeatSink for MOSFETs IRF
24	1	RL1	Relay RID 5V
25	1	RT1	Thermistor 10K (NTSD1XH103FPB50)
26	2	R1,R60	Resistor 22 OHm 1%/0.25W
27	2	R2,R56	Resistor 2K 1%/0.25W
28	2	R3,R57	Resistor 6.8K 1%/0.25W
29	2	R4,R58	Resistor 22K 1%/0.5W
30	2	R59,R5	Resistor 39 OHm 1%/0.25W
31	4	R6,R14,R45,R55	Resistor 1K 1%/0.25W
32	10	R7,R8,R9,R10,R11,R50,R51,R52,R53,R54	Resistor 100 OHm 1%/0.25W
33	9	R12,R13,R24,R25,R28,R33,R34,R47,R49	Resistor 150 OHm 1%/0.25W
34	2	R15,R43	Resistor 1,5 OHm 1%/0.25W
35	1	R16	Trimmer 4.7K /0.5W
36	10	R17,R18,R19,R20,R21,R38,R39,R40,R41,R42	Resistor 0.1 OHm/5W
37	6	R22,R23,R26,R32,R35,R46	Resistor 470 OHm 1%/0.25W
38	2	R31,R27	Resistor 15K 1%/0.25W
39	1	R29	Resistor 2.2K/1W
40	1	R30	Resistor 75K 1%/0.25W
41	1	R36	Resistor 1.6K 1%/0.25W
42	1	R37	Resistor 430 OHm 1%/0.25W
43	1	R44	Resistor 33 Ohm 5%/ 5W
44	1	R48	Resistor 10 OHm 1%/0.25W
45	1	SW1	Switch or jumper (3pins 2.54mm)