

### BENGALTIGER EF Amplifier Bill Of Materials

No.	Description	References	Value	Quantity Per PCB
1	Resistor 1/4watt	R16 R20 R21	100R	3
2	Resistor 1/4watt	R8 R9	10K	2
3	Resistor 1/4watt	R2	150R	1
4	Resistor 1/4watt	R17	15R	1
5	Resistor 1/4watt	R6 R10 R13 R14	1K	4
6	Resistor 1/4watt	R12	220R	1
7	Resistor 1/4watt	R1 R11	22K	2
8	Resistor 1/4watt	R3 R5	22R	2
9	Resistor 1/4watt	R18 R19 R22 R23 R26 R27	2R2	6
10	Resistor 1/4watt	R4 R7	68R	2
11	Resistor 1watt Fusible	R30	10R	1
12	Resistor 5watt Ceramic	R24 R25 R28 R29	0E22 /0E33	4
13	Potentiometer	RV1	500R	1
14	Unpolarized capacitor	C7	100pf 63v	1
15	Unpolarized capacitor	C3	220pf 63v	1
16	Unpolarized capacitor	C10	100nf 63v	1
17	Polarized capacitor	C1 C2	22uf 63v	2
18	Polarized capacitor	C6	47uf 63v	1
19	Polarized capacitor	C4	220uf 16v	1
20	Polarized capacitor	C8 C9	220uf 63v	2
21	1A General Purpose Diode, DO-41	D4 D5	1N4007	2
22	100V switching diode, DO-35	D1 D2	1N4148	2
23	Small Signal PNP Transistor, TO-92	Q1 Q2 Q5	2N5401	3
24	Small Signal NPN Transistor, TO-92	Q3 Q4 Q6	2N5551	3
25	NPN VAS Transistor, TO-126	Q8 Q9	BD139	2
26	PNP VAS Transistor, TO-126	Q7	BD140	1
27	NPN Driver transistor, TO-220	Q10	C2073 / TIP41C	1
28	PNP Driver transistor, TO-220	Q11	A940 / TIP42C	1
29	PNP Power transistor	Q13 Q15	2SA1943	2
30	NPN Power transistor	Q12 Q14	2SC5200	2
31	Fuse Holder 5x20 mm	F1 F2	Fuse 5x20 mm	2
32	Screw terminal, 01x02	J4	+VE supply	1
33	Screw terminal, 01x02	J3	-VE supply	1
34	Screw terminal, 01x02	J1	Signal in	1
35	Screw terminal, 01x02	J2	SPK out	1
36	Wire Jumper	JP1 JP2	JP1 JP2	2
37	Inductor Coil	L1	1000nH	1

- Working Voltage of all capacitors should be greater than Power Supply.
- Never Power up the Amplifier without Heatsink.

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