

TUSKER TDA7294 Mono Amplifier Bill of Materials

Sr.no.	Description	References	Value	Quantity Per PCB
1	Unpolarized capacitor	C6 C9	100nf 50v	2
2	Unpolarized capacitor	C2	1uf 50v	1
3	Polarized capacitor	C3 C5	10uf 50v	2
4	Polarized capacitor	C1 C4	22uf 50v	2
5	Polarized capacitor	C7 C8	220uf 50v	2
6	Diode	D1	1N4148	1
7	Screw terminal, 01x03	J2	DC Power In	1
8	Screw terminal, 01x02	J1	Signal In	1
9	Screw terminal, 01x02	J3	SPK Out	1
10	Wire Jumper	JP1 JP2	Jumper	2
11	Resistor 1/4 Watt	R3 R6	10K	2
12	Resistor 1/4 Watt	R1	1K	1
13	Resistor 1/4 Watt	R4 R7	22K	2
14	Resistor 1/4 Watt	R5	33K	1
15	Resistor 1/4 Watt	R2	680R	1
16	TDA7294 ic	U1	TDA7294	1

Note - Working Voltage of all capacitors should be greater than Power Supply.

- Always use good quality 25 - 35 watt soldering iron. High heat / high wattage soldering iron will harm PCB as well as components.
- Start by first soldering small components like Resistors, diodes, Jumpers, capacitors.
- After soldering all the components recheck them with circuit diagram.
- Check for any dry solder joints and any non connections.
- Make sure Correct polarity of all Polar Capacitors and Semiconductors.
- Securely mount Power Amplifier IC with insulator on suitable Heat sink.
- Always use good quality heat sink paste or thermal pads between Components and heat sink.
- Before powering on for the first time check for any short circuits between power supplies, ground and output.
- Apply power without any output load (Speakers) and input signal connected.
- If there is no Bang or Smoke and nothing is getting too hot or burning, Eureka.
- Now connect the load (Speakers) and power on, there should be no Noise or Hum without input signal, if there is power down and recheck.
- Now apply the Input signal and enjoy

For More information please visit www.amphead.in

