

TWIN TDA2003 AMPLIFIER

COMPONENTS

TWIN TDA2003 POWER AMP

Resistors

R1, R4	1Ω (2 off)
R2	220Ω
R3, R5	10Ω (2 off)
R6	470Ω

All 0.25W 5% carbon film

Potentiometers

VR1	10k rotary carbon
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Capacitors

C1, C2	4μ7 radial elect. 50V
C9	(3 off)
C3, C8	100n disc ceramic
	(2 off)
C4	22μ radial elect. 50V
C5, C6	100n polyester (2 off)
C7	10μ radial elect. 50V
C10	220μ radial elect. 50V

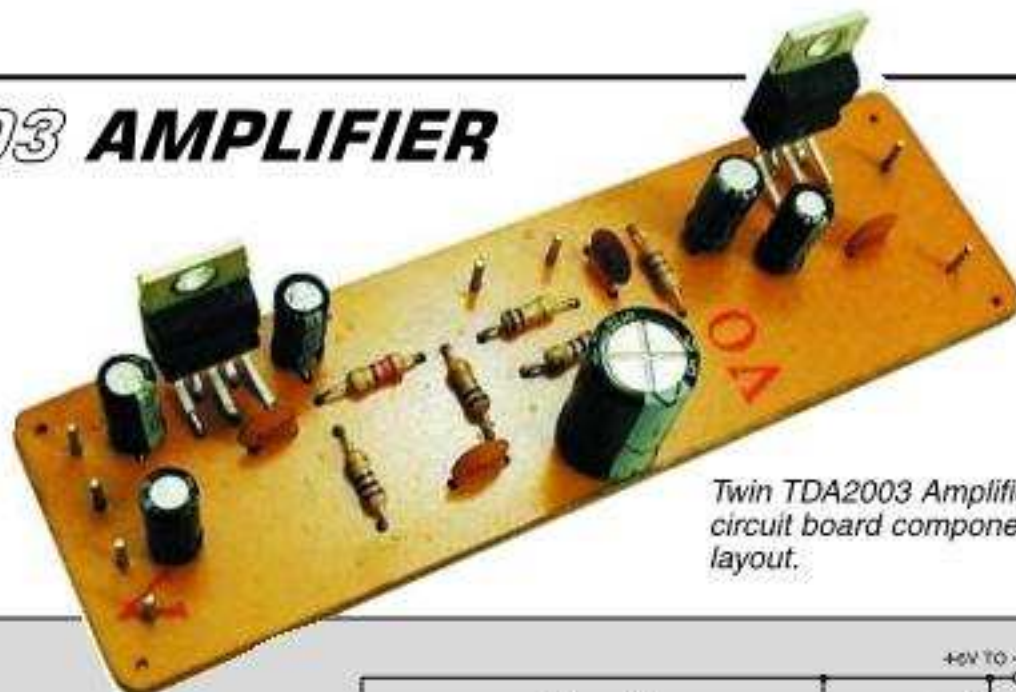
Semiconductor

IC1, IC2	TDA2003 audio power amp i.c. (2 off)
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Miscellaneous

LS1	2 to 8 ohm loudspeaker (see text)
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Printed circuit board available from the EPE PCB Service, code 348 (TDA2003); case (optional), size and type to choice; heatsink (see text); audio screened cable; multistrand connecting wire; solder pins;



Twin TDA2003 Amplifier circuit board component layout.

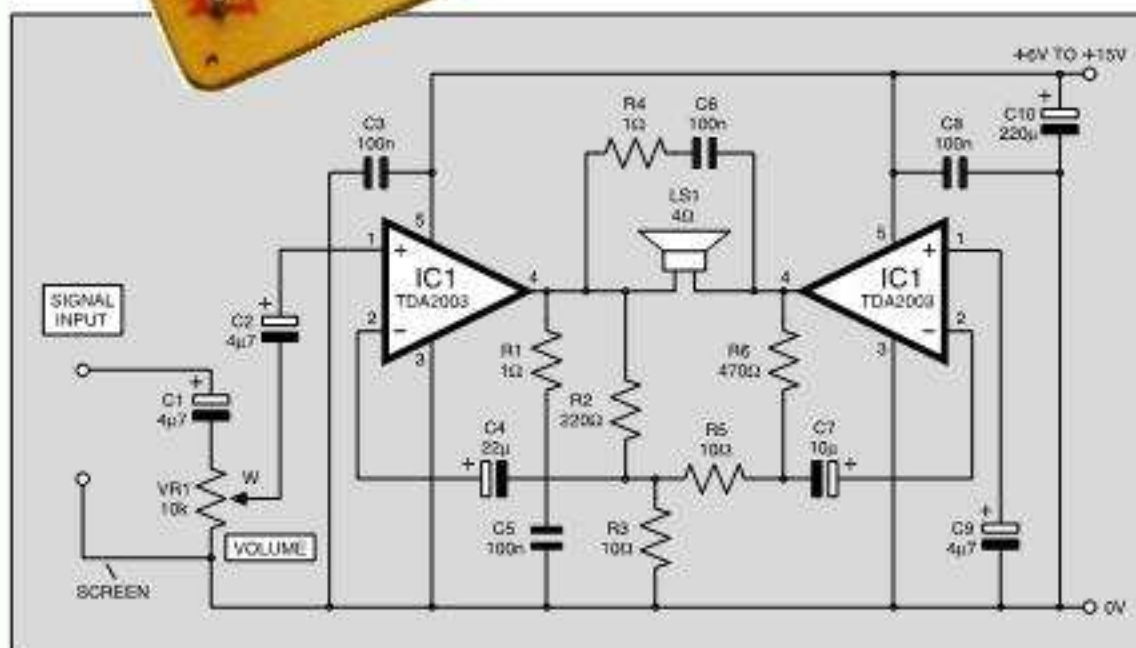


Fig.11 (above). Circuit diagram for the Twin TDA2003 Power Amplifier.

TWO TDA2003 BRIDGE CONFIGURATION POWER AMP

R.M.S. power output just before the onset of waveform clipping

Speaker Impedance Ohms	Supply Voltage		
	9V	12V	15V
2	6.25W	10.5W	—
4	3.78W	8W	12.5W
8	2W	5W	8.2W

Quiescent current

80mA

Input sensitivity for 8W

output (4 ohm load, 12V supply) 70mV r.m.s. (gain 40)

See single TDA2003 for details of absolute maximum ratings.

Fig.12 (below). Component layout, off-board interwiring and full-size copper foil master for the Twin TDA2003 Amp. You will need a heatsink for these devices.

