

3W Stereo Audio Amplifier

Tiny stereo audio amplifier board has been designed around SMD TDA7266D IC from ST. The TDA7266D is a dual bridge amplifier specially designed for Portable Audio, for LCD TV/Monitor, PC Motherboard, and TV applications. This circuit provides high quality audio output of 3W approx. on each channel with standard audio signal input. The circuit works with 3.5V to 5V. Due to low supply input this amplifier suitable for small size audio gadgets and portable audio applications like MP3 player, Voice messaging system, Warning signals, Annunciator.

Key Features

SUPPLY VOLTAGE RANGE 3.5 to 5V (Maximum supply 5V due to small PCB and small thermal Area)

OUTPUT POWER 3+3W @THD = 10%, RL = 8Ω, VCC = 3.7V (3W Approx.)

SINGLE SUPPLY

MINIMUM EXTERNAL COMPONENTS NO SVR CAPACITOR NO BOOTSTRAP NO BOUCHEROT CELLS

INTERNALLY FIXED GAIN

MUTE FUNCTIONS (Jumper Closer)

SHORT CIRCUIT PROTECTION

THERMAL OVERLOAD PROTECTION



BOM			
SR	QNTY.	REF	DESC.
1	1	CN1	2 PIN HEADER CONNECTOR
2	1	CN2	2 PIN HEADER CONNECTOR
3	1	C1	10uF SMD 16-25V
4	2	C2,C3	220uF 16-50V
5	2	C4,C7	0.1uF SMD 1206
6	2	C5,C6	0.22uF SMD 1206
7	1	J1	3 PIN JUMPER/CLOSUR
8	2	LS1,LS2	2 PIN HEADER CONNECTOR
9	1	R1	22K SMD1206
10	1	R2	47K SMD 1206
11	1	U1	TDA7266D SMD

