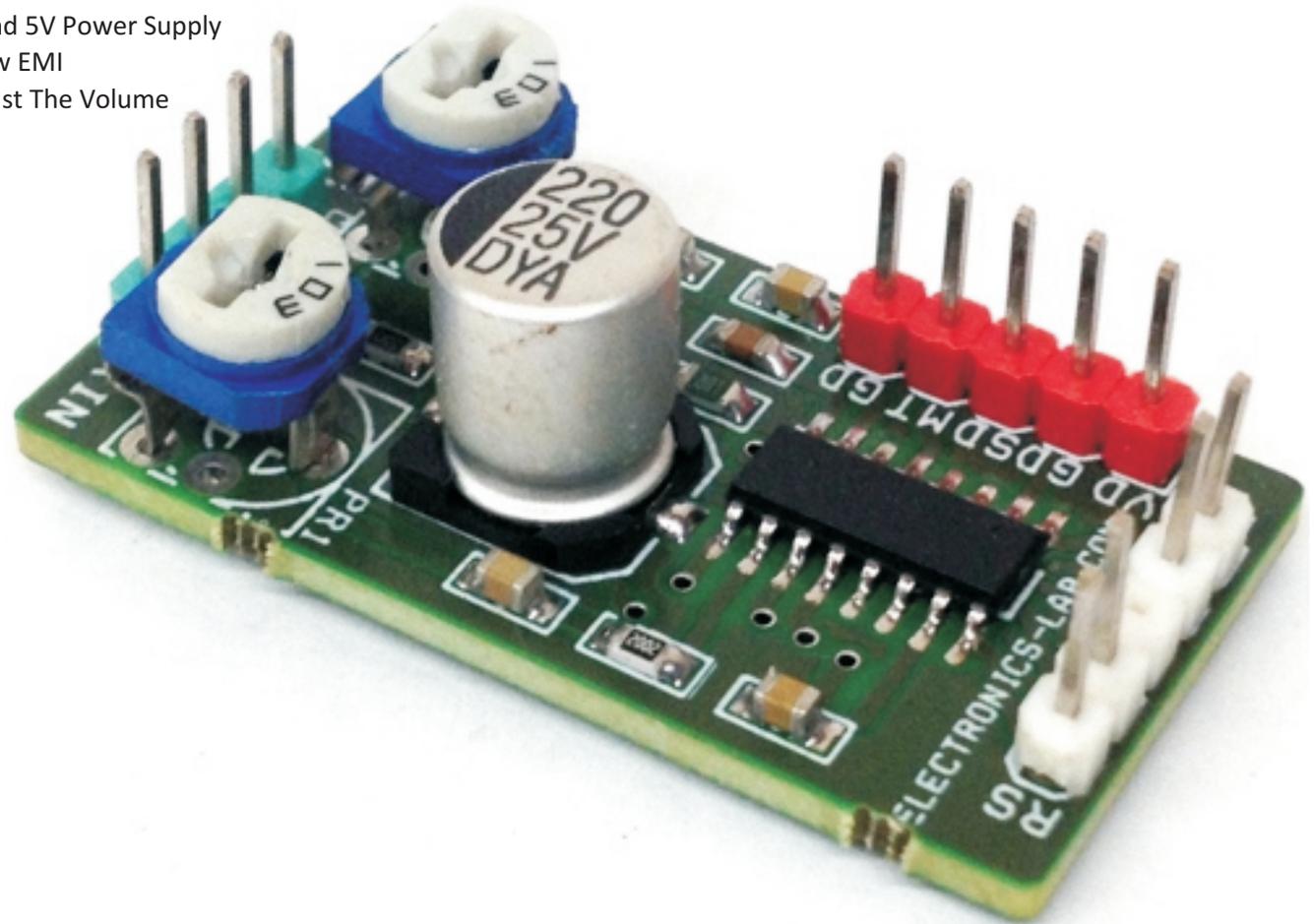
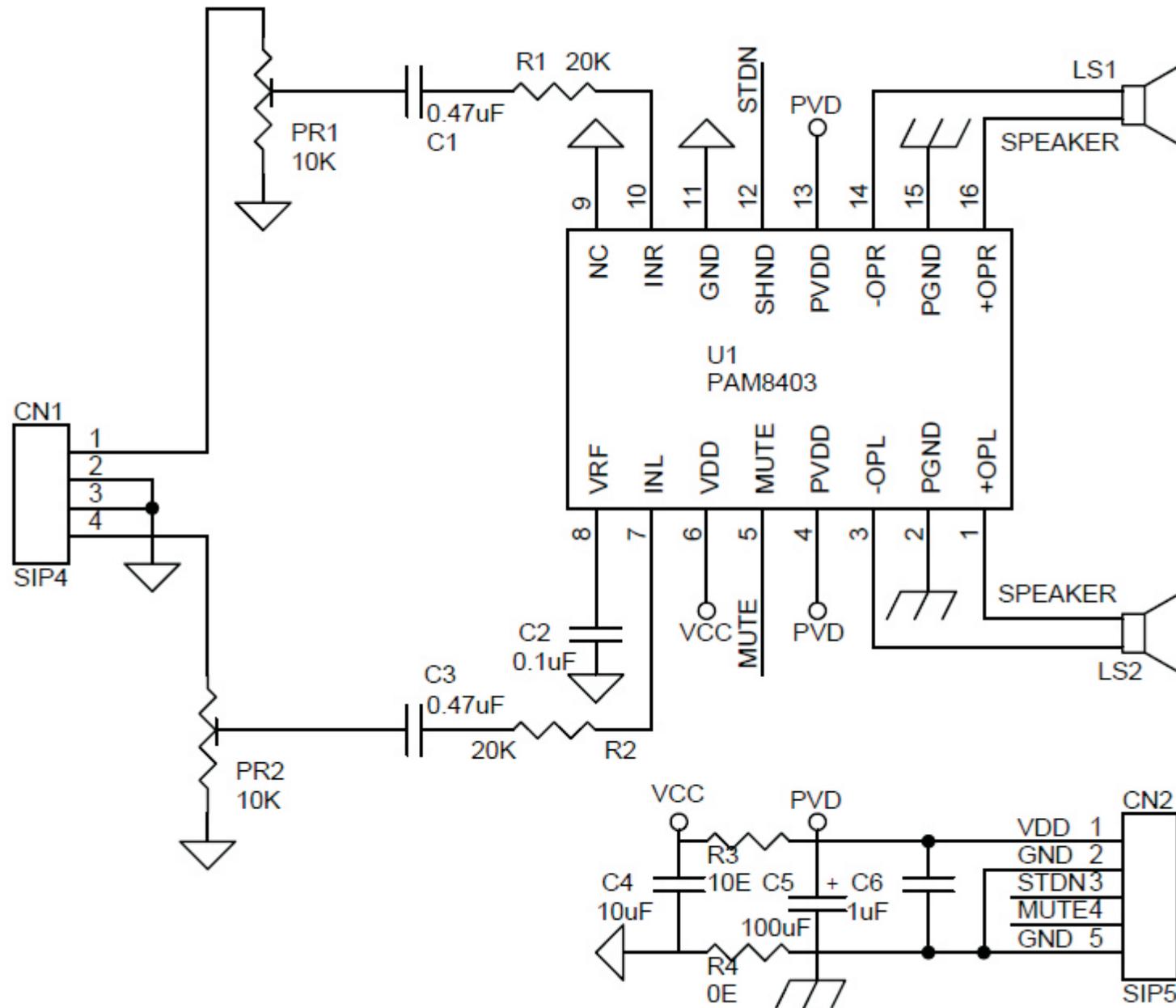


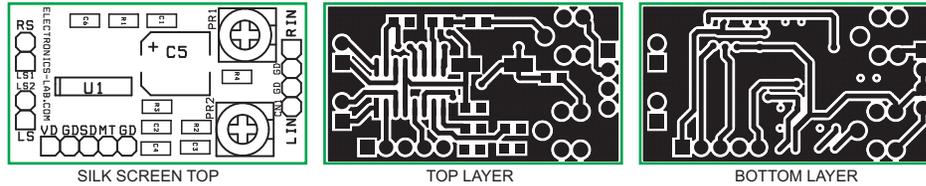
Low Cost Low Voltage 3W Class-D 3W Stereo Audio Amplifier for Portable Gadgets

Low cost low voltage 3W class-D stereo amplifier is based on PAM8403 IC, The PAM8403 is a 3W, class-D audio amplifier. It offers low THD+N, allowing it to achieve high-quality sound reproduction. The new filter less architecture allows the device to drive the speaker directly, requiring no low-pass output filters, thus saving system cost and PCB area. With the same numbers of external components, the efficiency of the PAM8403 is much better than that of Class-AB cousins. It can extend the battery life, which makes it well-suited for portable applications. Trimmer Potentiometer helps to adjust the volume control, CN1 provided to feed the audio signal, CN2 power supply, Mute and shutdown in, LS1 and LS2 to connect the speaker. Shutdown and Mute pin required high level signal input, and can be connect to VDD power pins for normal operation, can be connect to GND for shutdown or mute the audio. The amplifier works well with standard audio signal input.

- Supply 3.6V 5V DC
- 3W Output at 10% THD with a 4Ω Load and 5V Power Supply
- Filter less, Low Quiescent Current and Low EMI
- On Board Trimmer potentiometer to Adjust The Volume
- Low THD+N
- Very Small Size Board
- Superior Low Noise
- Efficiency up to 90%
- Short Circuit Protection
- Thermal Shutdown







BOM			
SR.	QNTY.	REF.	DESC
1	1	CN1	4 PIN HEADER CONNECTOR
2	1	CN2	5 PIN HEADER CONNECTOR
3	2	C1,C3	0.47uF SMD 0805
4	1	C2	0.1uF SMD 0805
5	1	C4	10uF SMD 0805
6	1	C5	100uF SMD
7	1	C6	1uF SMD 0805
8	2	LS1,LS2	2 PIN HEADER CONNECTOR
9	2	PR1,PR2	10K TRIMMER POT
10	2	R1,R2	20K SMD 0805
11	1	R3	10E SMD 0805
12	1	R4	0E SMD 0805
13	1	U1	PAM8403 SMD SO16

R-SPEAKER

L-SPEAKER

