

# PAM8403 5V Two-channel Stereo 3W+3W Audio Amplifier

Category :Audio Amplifier

## Overview :

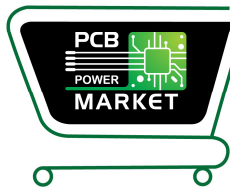
The **PAM8403** is a 3W+3W, class-D audio amplifier. It offers low THD+N, allowing it to achieve high-quality sound reproduction.

## Detailed Description:

The PAM8403 is a 3W+3W, class-D audio amplifier. It offers low THD+N, allowing it to achieve high-quality sound reproduction. The new filterless 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.

## Applications

- Bluetooth Stereo Audio hands free / headsets
- In robots that speak or generate sounds to indicate activities
- Portable Speakers
- LCD Monitors / TV Projectors
- Arduino or Raspberry Pi Game Machines
- Speaker Phones



## **Datasheet:**

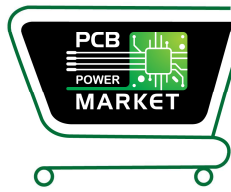
<http://www.diodes.com/files/datasheets/PAM8403.pdf>

## **Instructions/Manuals/Technical details**

- Operating Voltages: 2.5V to 5.5V
- Features: Mini amplifier board with compact size, high output power and HD audio.
- Amplifier IC: PAM8403
- Load : Can direct drive 4 or 8 ohm small speakers

## **Key Features:**

- Dual channel stereo, high output power (3 w + 3 w power @ 5V and 4 ohms load)
- Good sound quality
- Can use computer USB for power supply directly. Double panel wiring solves crosstalk
- Super mini design allows it to be easily placed in a variety of digital products.
- 3W Output at 10% THD with a 4ΩLoad and 5V Power Supply
- Filter less, Low Quiescent Current and Low EMI
- Low THD+N
- Superior Low Noise
- Efficiency up to 90%



- Short Circuit Protection
- Thermal Shutdown

### **Kit Includes :**

- On Board components only.

### **Accessories :**

- Multi meter, connecting wires, 4 or 8 ohm small speakers for testing.