

**DUAL AUDIO POWER AMPLIFIER****AA8227****Description**

The AA8227 is a monolithic dual audio power amplifier with built-in power on/off switch. It is designed for use in portable radio cassette, tape recorder and other audio products.

Because it needs only few external components to work, an audio system adopting AA8227 will have a remarkable merit to save system space.

**Features**

- High Power:  $P_{OUT}=2.5W/CH$  (Typ) at  $R_L=4\Omega$ ,  $V_{CC1}=V_{CC2}=9V$ , THD=10%
- Built-in Standby Switch
- Built-in Thermal Shutdown Protection Circuit
- Low Popping Noise at Power On
- Soft Clip
- Few External Components
- Operating Supply Voltage Range: 5 to 15 V

**Applications**

- Mini 2.1-CH or 5.1-CH Audio Sound System
- PC External Audio Power Amplifier
- Portable Radio Cassette
- Tape Recorder
- Active Speaker

**Parametric Table**

( $V_{CC1}=V_{CC2}=9V$ ,  $R_L=4\Omega$ , unless otherwise specified.)

Supply Voltage (Min) (V)	5
Supply Voltage (Max) (V)	15
Supply Current (mA)	21
Quiescent Output Voltage (V)	4.5
Output Power per Channel at THD=10% when $R_L=4\Omega$ (W)	2.5
Output Power per Channel at THD=10% when $R_L=3\Omega$ (W)	3.0
Total Harmonic Distortion at 0.4W/CH (%)	0.2
Closed Loop Voltage Gain when $R_{NF}=120\Omega$ (dB)	45
Output Noise Voltage (mVrms)	0.3
Ripple Rejection Ratio (dB)	52
Channel Separation (dB)	50
Package	HDIP-12

**Benefits**

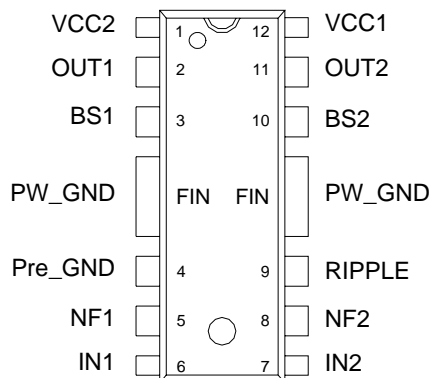
- High Power
- Low THD
- Low Output Noise
- Small Supply Current

**Additional Available Materials**

- Samples
- Preliminary Datasheet
- Reliability Report

**DUAL AUDIO POWER AMPLIFIER****AA8227****Pin Configuration**

## HDIP-12

**Ordering Information Example**

Package	Temperature Range	Part Number	Marking ID	Packing Type
HDIP-12	0 to 70 °C	AA8227PH-E1	AA8227PH-E1	Tube

Detailed information please refer to the relevant datasheet.

**Sales Office:****USA**3170 De La Cruz Blvd, Suite # 105 Santa Clara, CA 95054-2411,  
U.S.A

Tel : +1-408-988 6388

Fax : +1-408-988 6386

**Taiwan**4F, 298-1 Rui Guang Road, Nei-Hu District, Taipei,  
Taiwan

Tel : 886-2-2656-2808

Fax : 886-2-2656-2806

**Shanghai**8F, B Zone, 900 Yi Shan Road, Shanghai 200233,  
China

Tel : 86-21-6495 9539

Fax : 86-21-6485 9673

**Shenzhen**Room 27B, Tower C, No. 2070, Shennanzhong Road, Shenzhen  
518031, China

Tel : 86-755-8368 3987

Fax : 86-755-8368 3166