

## Audio Amp Speaker 2-CH Stereo Class-AB 8-Pin SOIC Tube



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Texas Instruments, Inc](#)

**Package/Case:** SOIC-8

**Product Type:** Amplifier ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The OPA1602 and OPA1604 bipolar-input operational amplifiers achieve very low 2.5nV/ $\sqrt{\text{Hz}}$  noise density with an ultralow distortion of 0.00003% at 1kHz. The OPA1602 and OPA1604 series of op amps offer rail-to-rail output swing to within 600mV with 2k $\Omega$  load, which increases headroom and maximizes dynamic range. These devices also have a high output drive capability of  $\pm 30\text{mA}$ .

These devices operate over a very wide supply range of  $\pm 2.25\text{V}$  to  $\pm 18\text{V}$ , on only 2.6mA of supply current per channel. The OPA1602 and OPA1604 are unity-gain stable and provide excellent dynamic behavior over a wide range of load conditions.

These devices also feature completely independent circuitry for lowest crosstalk and freedom from interactions between channels, even when overdriven or overloaded.

The OPA1602 and OPA1604 are specified from  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

### Key Features

#### SUPERIOR SOUND QUALITY

**ULTRALOW NOISE:** 2.5nV/ $\sqrt{\text{Hz}}$  noise density with an ultralow distortion of 0.00003% at 1kHz. The OPA1602 and OPA1604 series of op amps offer rail-to-rail output swing to within 600mV with 2k $\Omega$  load, which increases headroom and maximizes dynamic range. These devices also have a high output drive capability of  $\pm 30\text{mA}$ .

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### Recommended For You

**LM833N/NOPB**

Texas Instruments, Inc  
DIP-8

**OPA2134PA**

Texas Instruments, Inc  
DIP8

**OPA1642AIDR**

Texas Instruments, Inc  
SOP8

**LM4808MM/NOPB**

Texas Instruments, Inc  
MSOP8

**LM4667MM/NOPB**

Texas Instruments, Inc  
TSSOP

**OPA1642AIDGKR**

Texas Instruments, Inc  
MSOP8

**OPA1612AID**

Texas Instruments, Inc  
SOP8

**OPA1622IDRCR**

Texas Instruments, Inc  
VSON10

**OPA1622IDRCT**

Texas Instruments, Inc  
VSON10

**LM4871MX/NOPB**

Texas Instruments, Inc  
SOP8

**OPA1612AIDRGR**

Texas Instruments, Inc  
SON8

**LM4890M/NOPB**

Texas Instruments, Inc  
SOP8

**OPA1632DGN**

Texas Instruments, Inc  
MSOP8

**LM4890MM/NOPB**

Texas Instruments, Inc  
MSOP8

**LM4562MA/NOPB**

Texas Instruments, Inc  
SOP-8