

Audio Amp Speaker 1-CH Mono Class-AB 8-Pin SOIC Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: SOP8

Product Type: Amplifier ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The OPA1611 (single) and OPA1612 (dual) bipolar-input operational amplifiers achieve very low 1.1-nV/ $\sqrt{\text{Hz}}$ noise density with an ultralow distortion of 0.000015% at 1 kHz. The OPA1611 and OPA1612 offer rail-to-rail output swing to within 600 mV with a 2-k Ω load, which increases headroom and maximizes dynamic range. These devices also have a high output drive capability of ± 30 mA.

These devices operate over a very wide supply range of ± 2.25 V to ± 18 V, on only 3.6 mA of supply current per channel. The OPA1611 and OPA1612 op amps are unity-gain stable and provide excellent dynamic behavior over a wide range of load conditions.

The dual version features completely independent circuitry for lowest crosstalk and freedom from interactions between channels, even when overdriven or overloaded.

Both the OPA1611 and OPA1612 are available in SOIC-8 packages and the OPA1612 is available in SON-8. These devices are specified from -40°C to $+85^{\circ}\text{C}$.

Key Features

Superior Sound Quality

Ultralow Noise: 1.1 nV/ $\sqrt{\text{Hz}}$ noise density with an ultralow distortion of 0.000015% at 1 kHz. The OPA1611 and OPA1612 offer rail-to-rail output swing to within 600 mV with a 2-k Ω load, which increases headroom and maximizes dynamic range. These devices also have a high output drive capability of ± 30 mA.

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Application

Audio, Signal Processing

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

OPA1622IDRCR

Texas Instruments, Inc
VSON10

OPA1622IDRCT

Texas Instruments, Inc
VSON10

OPA1602AID

Texas Instruments, Inc
SOIC-8

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