

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



Images are for reference only

[Inquiry](#)

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: SOP-8

Product Type: Amplifier ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The OPA1641 (single), OPA1642 (dual), and OPA1644 (quad) series are JFET-input, ultralow distortion, low-noise operational amplifiers fully specified for audio applications.

The OPA1641, OPA1642, and OPA1644 rail-to-rail output swing allows increased headroom, making these devices ideal for use in any audio circuit. Features include 5.1-nV/ $\sqrt{\text{Hz}}$ noise, low THD+N (0.00005%), a low input bias current of 2 pA, and low quiescent current of 1.8 mA per channel.

These devices operate over a very wide supply voltage range of ± 2.25 V to ± 18 V. The OPA1641, OPA1642, and OPA1644 series of operational amplifiers are unity-gain stable and provide excellent dynamic behavior over a wide range of load conditions.

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

The OPA1641, OPA1642, and OPA1644 are specified from -40°C to $+85^{\circ}\text{C}$.

Key Features

Superior Sound Quality

True JFET Input Operational Amplifier With Low Input Bias Current

Low Noise: 5.1 nV/ $\sqrt{\text{Hz}}$ noise, low THD+N (0.00005%), a low input bias current of 2 pA, and low quiescent current of 1.8 mA per channel.

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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

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