

Audio Amp Speaker 1-CH Mono/2-CH Stereo/4-CH Stereo Class-AB 8-Pin SOIC Tube



Images are for reference only

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: SOP8

Product Type: Amplifier ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

[Inquiry](#)

General Description

The OPA1632 is a fully-differential amplifier designed for driving high-performance audio analog-to-digital converters (ADCs). It provides the highest audio quality, with very low noise and output drive characteristics optimized for this application. The OPA1632's excellent gain bandwidth of 180 MHz and very fast slew rate of 50 V/ μ s produce exceptionally low distortion. Very low input noise of 1.3 nV/ \sqrt Hz further ensures maximum signal-to-noise ratio and dynamic range.

The flexibility of the fully differential architecture allows for easy implementation of a single-ended to fully-differential output conversion. Differential output reduces even-order harmonics and minimizes common-mode noise interference. The OPA1632 provides excellent performance when used to drive high-performance audio ADCs such as the PCM1804. A shutdown feature also enhances the flexibility of this amplifier.

The OPA1632 is available in an SO-8 package and a thermally-enhanced MSOP-8 PowerPAD package. For all available packages, see the orderable addendum at the end of the data sheet.

Key Features

Superior Sound Quality

Ultra Low Distortion: 0.000022%

Low Noise: 1.3 nV/ \sqrt Hz further ensures maximum signal-to-noise ratio and dynamic range.

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Recommended For You

LMB33N/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