


Op Amp Dual High Speed Amplifier $\pm 16\text{V}/32\text{V}$ 8-Pin SOIC Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	SOP
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The THS4031 and THS4032 are ultra-low voltage noise, high-speed voltage feedback amplifiers that are ideal for applications requiring low voltage noise, including communications and imaging. The single amplifier THS4031 and the dual amplifier THS4032 offer good AC performance with 100-MHz bandwidth ($G = 2$), 100-V/ μs slew rate, and 60-ns settling time (0.1%). The THS4031 and THS4032 are unity-gain stable with 275-MHz bandwidth. These amplifiers have a high drive capability of 90 mA and draw only 8.5-mA supply current per channel. With -90 dBc of total harmonic distortion (THD) at $f = 1$ MHz and a very low noise of 1.6 nV/ $\sqrt{\text{Hz}}$, the THS4031 and THS4032 are designed for applications requiring low distortion and low noise such as buffering analog-to-digital converters.

Key Features

Ultra-Low 1.6 nV/ $\sqrt{\text{Hz}}$ Voltage Noise

High Speed:

100-MHz Bandwidth [$G = 2$ (-1), -3 dB]

100-V/ μs Slew Rate

Very Low Distortion

THD = -72 dBc ($f = 1$ MHz, $R_L = 150 \Omega$)

THD = -90 dBc ($f = 1$ MHz, $R_L = 1 \text{ k}\Omega$)

Low 0.5-mV (Typical) Input Offset Voltage

90-mA Output Current Drive (Typical)

Typical Operation from ± 5 V to ± 15 V

Available in Standard SOIC and MSOP-PowerPAD, Packages

Evaluation Module Available

Recommended For You

THS3092D

Texas Instruments, Inc

SOP-8

THS7316DR

Texas Instruments, Inc

SOP-8

THS4131DGNR

Texas Instruments, Inc

MSOP8

THS4011CD

Texas Instruments, Inc

SOP

THS7374IPW

Texas Instruments, Inc

TSSOP14

THS6184RHFR

Texas Instruments, Inc

QFN

THS4503IDGN

Texas Instruments, Inc

MSOP8

THS7376IPWR

Texas Instruments, Inc

TSSOP14

THS7314D

Texas Instruments, Inc

SOP8

THS4130IDGK

Texas Instruments, Inc

MSOP8

THS7353PW

Texas Instruments, Inc

TSSOP20

THS4551IRGTR

Texas Instruments, Inc

VQFN16

THS4281D

Texas Instruments, Inc

SOIC-8

THS4631D

Texas Instruments, Inc

SOP-8

THS3061DGN

Texas Instruments, Inc

MSOP8