

SP Amp DIFF AMP Single $\pm 16.5V/33V$ 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 THS415x is one in a family of fully differential input/differential output devices fabricated using Texas Instruments' state-of-the-art BiCom1 complementary bipolar process.

The THS415x is made of a true fully-differential signal path from input to output. This design leads to an excellent common-mode noise rejection and improved total harmonic distortion.

Key Features

High Performance

150 MHz -3 dB Bandwidth (VCC = ±5 V)

650 V/μs Slew Rate (VCC = ±15 V)

-89 dB Third Harmonic Distortion at 1 MHz

-83 dB Total Harmonic Distortion at 1 MHz

7.6 nV/Hz Input-Referred Noise

Differential Input/Differential Output

Balanced Outputs Reject Common-Mode Noise

Differential Reduced Second Harmonic Distortion

Wide Power-Supply Range

VCC = 5 V Single-Supply to ±15 V Dual Supply

ICC(SD) = 1 mA (VCC = ±5) in Shutdown Mode (THS4150)

APPLICATIONS

Single-Ended to Differential Conversion

Differential ADC Driver

Differential Antialiasing

Differential Transmitter and Receiver

Output Level Shifter

PowerPAD is a trademark of Texas Instruments. All other trademarks are the property of their respective owners.

Description

The THS415x is one in a family of fully differential input/differential output devices fabricated using Texas Instruments' state-of-the-art BiComI complementary bipolar process.

The THS415x is made of a true fully-differential signal path from input to output. This design leads to an excellent common-mode noise rejection and improved total harmonic distortion.

Recommended For You

THS3092D

Texas Instruments, Inc

SOP-8

THS7316DR

Texas Instruments, Inc

SOP-8

THS4131IDGNR

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