

## SP Amp DIFF AMP Single $\pm 7.5V/15V$ 8-Pin SOIC T/R



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 THS4504 and THS4505 are high-performance, fully differential amplifiers from Texas Instruments. The THS4504, featuring power-down capability, and the THS4505, without power-down capability, set new performance standards for fully differential amplifiers with unsurpassed linearity, supporting 12-bit operation through 40 MHz. Package options include the SOIC-8 and the MSOP-8 with PowerPAD for a smaller footprint, enhanced ac performance, and improved thermal dissipation capability.

## Key Features

Fully Differential Architecture

Bandwidth: 260 MHz

Slew Rate: 1800 V/ $\mu$ s

IMD3: -73 dBc at 30 MHz

OIP3: 29 dBm at 30 MHz

Output Common-Mode Control

Wide Power-Supply Voltage Range: 5 V,  $\pm$ 5 V, 12 V, 15 V

Input Common-Mode Range Shifted to Include the Negative Power-Supply Rail

Power-Down Capability (THS4504)

Evaluation Module Available

High Linearity Analog-to-Digital Converter Preamp

Wireless Communication Receiver Chains

Single-Ended to Differential Conversion

Differential Line Driver

Active Filtering of Differential Signals

## Recommended For You

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### 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