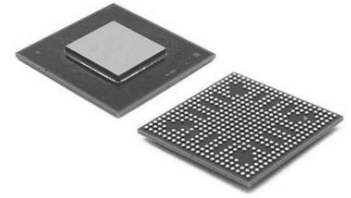


SP Amp Differential ADC Driver Single $\pm 5.5V/11V$ 16-Pin LFCSP EP T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Analog Devices, Inc](#)

Package/Case: LFCSP16

Product Type: Amplifier ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

Differential gain configurations are easily realized using an external feedback network comprising four resistors. The current feedback architecture provides loop gain that is nearly independent of closed-loop gain, achieving wide bandwidth, low distortion, and low noise at higher gains and lower power consumption than comparable voltage feedback amplifiers.

The ADA4927 is fabricated using the Analog Devices, Inc., silicon-germanium complementary bipolar process, enabling very low levels of distortion with an input voltage noise of only 1.3 nV/ $\sqrt{\text{Hz}}$. The low dc offset and excellent dynamic performance of the ADA4927 make it well suited for a wide variety of data acquisition and signal processing applications.

The ADA4927-1 is available in a Pb-free, 3 mm \times 3 mm 16-lead LFCSP, and the ADA4927-2 is available in a Pb-free, 4 mm \times 4 mm 24-lead LFCSP. The pinouts are optimized to facilitate printed circuit board (PCB) layout and to minimize distortion. They are specified to operate over the -40°C to $+105^{\circ}\text{C}$ temperature range.

Key Features

- Extremely low harmonic distortion
- Better distortion at higher gains than VF amplifiers
- Low input voltage noise: 1.4 nV/ $\sqrt{\text{Hz}}$
- High speed
- 0.1 dB gain flatness: 150 MHz
- Slew rate: 5000 V/ μs , 25% to 75%
- Fast 0.1% settling time: 10 ns
- Low input offset voltage: 0.3 mV typical
- Externally adjustable gain
- Stability and bandwidth controlled by feedback resistor
- See data sheet for additional features

Application

- ADC drivers
- Single-ended-to-differential converters
- IF and baseband gain blocks
- Differential buffers
- Differential line drivers

Recommended For You

AD8309ARUZ

Analog Devices, Inc

TSSOP16

AD524BDZ

Analog Devices, Inc

CDIP-16

AD8221BR

Analog Devices, Inc

SOP-8

AD8221ARZ

Analog Devices, Inc

SOP8

AD627BRZ

Analog Devices, Inc

SOP8

AD622ANZ

Analog Devices, Inc

DIP8

ADA4930-2YCPZ-R7

Analog Devices, Inc

LFCS24

AD8034ARZ

Analog Devices, Inc

SOP8

AD8561ARZ

Analog Devices, Inc

SOP8

AD633JRZ

Analog Devices, Inc

SOP8

AD632AH

Analog Devices, Inc

CAN10

AD8422BRZ

Analog Devices, Inc

SOP8

ADCMP600BKSZ-R2

Analog Devices, Inc

SC70-5

AD620BN

Analog Devices, Inc

DIP8

AD620BR

Analog Devices, Inc

SOP