

Differential Amplifier, High Voltage, 1 Amplifiers, 100 MHz, -40 °C, 85 °C

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-8
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADA4922-1ARDZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADA4922-1 is a differential driver for 16-bit to 18-bit analog-to-digital converters (ADCs) that have differential input ranges up to ± 20 V. Configured as an easy-to-use, single-ended-to-differential amplifier, the ADA4922-1 requires no external components to drive ADCs. The ADA4922-1 provides essential benefits such as low distortion and high SNR that are required for driving ADCs with resolutions up to 18 bits.

With a wide supply voltage range (5 V to 26 V), high input impedance, and fixed differential gain of 2, the ADA4922-1 is designed to drive ADCs found to in a variety of applications, including industrial instrumentation.

The ADA4922-1 is manufactured on Analog Devices, Inc., proprietary, second-generation XFCB process that enables the amplifier to achieve excellent noise and distortion performance on high supply voltages.

The ADA4922-1 is available in an 8-lead $3\text{ mm} \times 3\text{ mm}$ LFCSP as well as an 8-lead SOIC package. Both packages are equipped with an exposed paddle for more efficient heat transfer. The ADA4922-1 is rated to work over the extended industrial temperature range, -40°C to $+85^\circ\text{C}$.

Features

Single-ended-to-differential conversion

Low distortion ($V_{O, >}$)

Low differential output referred noise: 12 nV/ $\sqrt{\text{Hz}}$

High input impedance: 11 M Ω

Fixed gain of 2

No external gain components required

Low output-referred offset voltage: 1.1 mV maximum

Low input bias current: 3.5 μA maximum

Wide supply range

5 V to 26 V

Can produce differential output signals in excess of 40 V p-p

High speed

38 MHz, -3 dB bandwidth at 0.2 V p-p differential output

Fast settling time

200 ns to 0.01% for 12 V step on ± 5 V supplies

Disable feature

Available in space-saving, thermally enhanced packages

8-lead, 3 mm \times 3 mm LFCSP

8-lead SOIC

Low supply current $>$

Application

High voltage data acquisition systems

Industrial instrumentation

Spectrum analysis

ATE

Medical instruments

Related Products



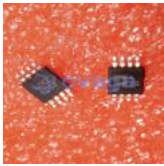
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