

Instrument Amplifier, 2 Amplifier, 120 μ V, 2 V/ μ s, 150 kHz, \pm 2.3V to \pm 18V, LFCSP

Manufacturers	Analog Devices, Inc
Package/Case	LFCSP-16
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8222ACPZ-WP or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8222 is a dual-channel, high performance instrumentation amplifier that requires only one external resistor per amplifier to set gains of 1 to 10,000.

The AD8222 is the first dual-instrumentation amplifier in the small 4 mm \times 4mm LFCSP. It requires the same board area as a typical single instrumentation amplifier. The smaller package allows a 2 \times increase in channel density and a lower cost per channel, all with no compromise in performance.

The AD8222 can also be configured as a single-channel, differential output instrumentation amplifier. Differential outputs provide high noise immunity, which can be useful when the output signal must travel through a noisy environment, such as with remote sensors. The configuration can also be used to drive differential input analog-to-digital converters (ADCs). The AD8222 maintains a minimum CMRR of 80 dB to 4 kHz for all grades at = 1.

The AD8222 operates on both single and dual supplies and only requires 2.2 mA maximum supply current for both amplifiers. It is specified over the industrial temperature range of -40° C to $+85^{\circ}$ C and is fully RoHS compliant.

For a single-channel version, see the AD8221.

Features

Two channels in small 4 mm × 4 mm LFCSP

Gain set with 1 resistor per amplifier>

Low noise

8 nV/ $\sqrt{\text{Hz}}$ at 1 kHz

0.25 μV p-p (0.1 Hz to 10 Hz)

High accuracy dc performance (B grade)

60 μV maximum input offset voltage

0.3 $\mu\text{V}/^\circ\text{C}$ maximum input offset drift

1.0 nA maximum input bias current

126 dB minimum CMRR>

Excellent ac performance

140 kHz bandwidth>

13 μs settling time to 0.001%

Differential output option (single channel)

Fully specified

Adjustable common-mode output

Supply range: ± 2.3 V to ± 18 V

Available As Known Good Die and fully guaranteed to data sheet specifications

Application

Multichannel data acquisition for

ECG and medical instrumentation

Industrial process controls

Wheatstone bridge sensors

Differential drives for

High resolution input ADCs

Remote sensors



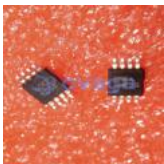


Related Products



[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc
MSOP-8



[AD8567ARUZ](#)

Analog Devices, Inc
TSSOP-14



[AD8022ARMZ](#)

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[ADA4528-2ARMZ-R7](#)

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