

AD822ARZ-REEL7

Data Sheet

Operational Amplifier, Rail to Rail Output, 2 Amplifier, 1.8 MHz, 3 V/ μs , 5V to 30V, ± 2.5 V to ± 15 V

Manufacturers <u>Analog Devices, Inc</u>

Package/Case SOIC-8

Product Type Amplifier ICs

RoHS Pb-free Halide free

Lifecycle



Images are for reference only

Please submit RFQ for AD822ARZ-REEL7 or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFO

General Description

The AD8222 is a dual-channel, high performance instrumentationamplifier 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 atypical single instrumentation amplifier. The smaller package allows a $2\times$ increase in channel density and a lower cost perchannel, all with no compromise in performance.

The AD8222 can also be configured as a single-channel, differential output instrumentation amplifier. Differential outputs providehigh noise immunity, which can be useful when the outputsignal must travel through a noisy environment, such as withremote sensors. The configuration can also be used to drivedifferential input analog-to-digital converters (ADCs). The AD8222 maintains a minimum CMRR of 80 dB to 4 kHz for allgrades 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°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 $8 \text{ nV}/\sqrt{\text{Hz}}$ at 1 kHz $0.25 \mu V p-p (0.1 Hz to 10 Hz)$ High accuracy dc performance (B grade) $60 \, \mu V$ 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> $13 \mu s$ settling time to 0.001%Differential output option (single channel) Fully specified Adjustable common-mode output

Application

Multichannel data acquisition for

ECG and medical instrumentation

Industrial process controls

Wheatstone bridge sensors

Differential drives for

High resolution input ADCs

Remote sensors

Supply range: $\pm 2.3~V$ to $\pm 18~V$

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



Related Products



AD8418BRMZ-RL
Analog Devices, Inc
MSOP-8



ADA4084-2ARMZ
Analog Devices, Inc
MSOP-8



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ADA4528-2ARMZ-R7
Analog Devices, Inc
MSOP-8

AD8062ARMZ
Analog Devices, Inc
MSOP8



AD8567ARUZ
Analog Devices, Inc
TSSOP-14



Analog Devices, Inc SOP23

AD8628AUJZ



AD8022ARMZ
Analog Devices, Inc
MSOP-8



AD8041AR
Analog Devices, Inc
SOP-8