AD8429BRZ

Data Sheet

Instrumentation Amplifiers 1nV/?Hz Low Noise

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

Images are for reference only

Please submit RFQ for AD8429BRZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The AD8429 excels at measuring tiny signals. It delivers ultralow input noise performance of 1 nV/√Hz. The high CMRR of the AD8429 prevents unwanted signals from corrupting the acqui-sition. The CMRR increases as the gain increases, offering high rejection when it is most needed. The high performance pin configuration of the AD8429 allows it to reliably maintain high CMRR at frequencies well beyond those of typical instrumentation amplifiers.

The AD8429 reliably amplifies fast changing signals. Its current feedback architecture provides high bandwidth at high gain, for example, 1.2 MHz at>

Gain is set from 1 to 10,000 with a single resistor. A reference pin allows the user to offset the output voltage. This feature can be useful to shift the output level when interfacing to a single supply signal chain.The AD8429 performance is specified over the extended industrial temperature range of −40°C to +125°C. It is available in an 8-lead plastic SOIC package.

Features

Low noise1 nV/√Hz input noise45 nV/√Hz output noise

High accuracy dc performance (AD8429BRZ)90 dB CMRR minimum = 1)

Excellent ac specifications80 dB CMRR to 5 kHz = 1)1.2 MHz bandwidth = 1)

Versatile±4 V to ±18 V dual supplyGain set with a single>

Temperature range for specified performance−40°C to +125°C

Application

Medical instrumentation

Precision data acquisition

Microphone preamplification

Vibration analysis

Related Products

[AD8418BRMZ-RL]

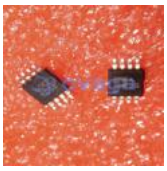
Analog Devices, Inc

MSOP-8

[ADA4528-2ARMZ-R7]

Analog Devices, Inc

MSOP-8



[ADA4084-2ARMZ]

Analog Devices, Inc

MSOP-8

[AD8062ARMZ]

Analog Devices, Inc

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[AD8567ARUZ]

Analog Devices, Inc

TSSOP-14

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Analog Devices, Inc

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[AD8022ARMZ]

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[AD8041AR]

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