

Instrument Amplifier, 1 Amplifier, 200 μ V, 0.8 V/ μ s, 250 kHz, \pm 1.5V to \pm 18V, SOIC

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



Images are for reference only

Please submit RFQ for AD8227ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The robust AD8227 inputs are designed to connect to real-world sensors. In addition to its wide operating range, the AD8227 can handle voltages beyond the rails. For example, with a \pm 5 V supply, the part is guaranteed to withstand \pm 35 V at the input with no damage. Minimum as well as maximum input bias currents are specified to facilitate open wire detection. The AD8227 is ideal for multichannel, space-constrained applications. With its MSOP package and 125°C temperature rating, the AD8227 thrives in tightly packed, zero airflow designs.

The AD8227 is available in 8-pin MSOP and SOIC packages. It is fully specified for -40°C to $+125^{\circ}\text{C}$ operation.

For a similar instrumentation amplifier with a gain range of 1 to 1000, see the AD8226.

Applications

Industrial process controls

Bridge amplifiers

Medical instrumentation

Portable data acquisition

Multichannel systems

Features

Gain set with 1 external resistor Gain range: 5 to 1000

Input voltage goes below ground

Inputs protected beyond supplies

Very wide power supply range Single supply: 2.2 V to 36 V Dual supply: ± 1.5 V to ± 18 V

Bandwidth >

CMRR >

Input noise: 24 nV/ $\sqrt{\text{Hz}}$

Typical supply current: 350 μA

Specified temperature: -40°C to $+125^\circ\text{C}$

8-lead SOIC and MSOP packages

Application

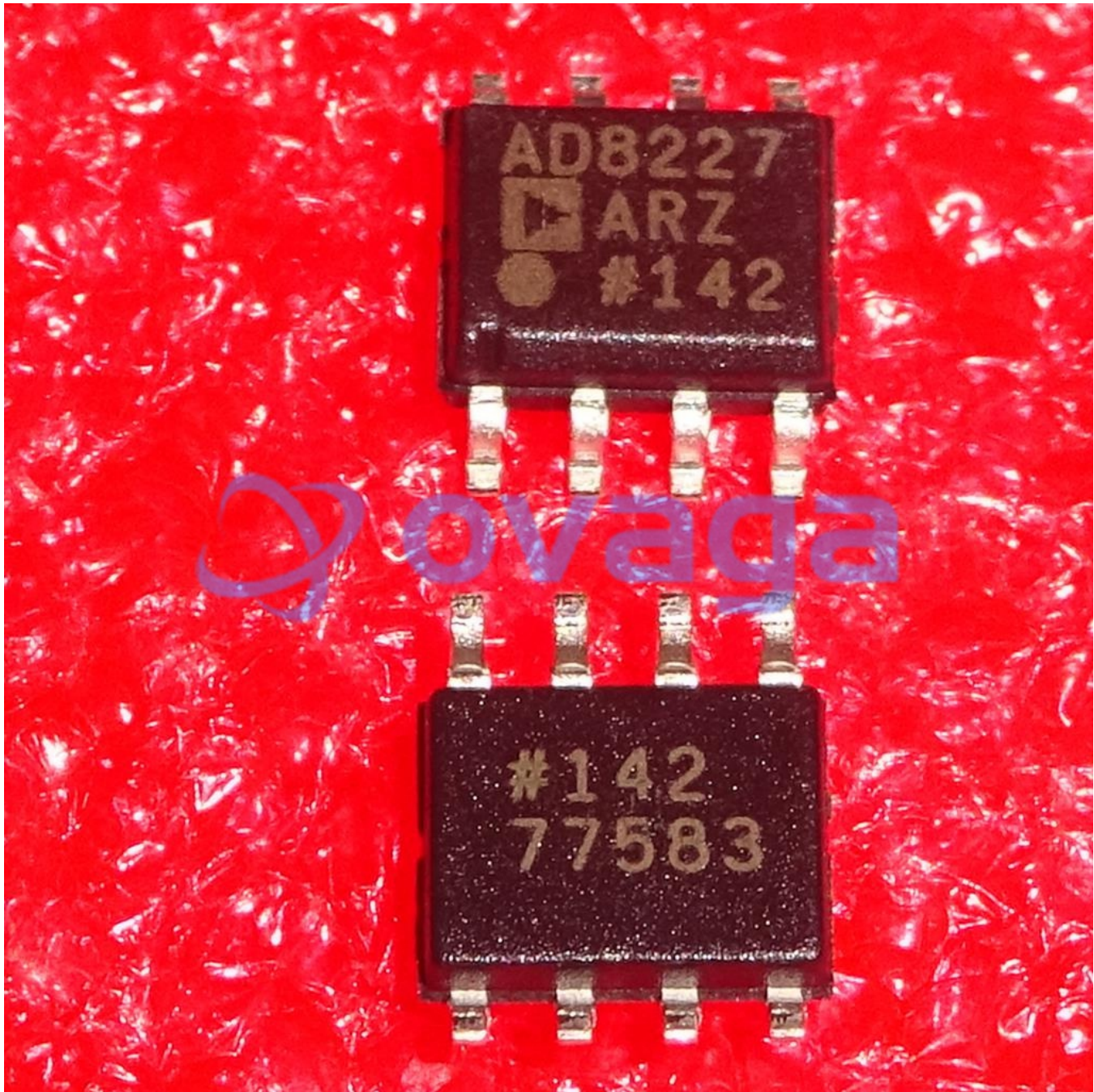
Industrial process controls

Bridge amplifiers

Medical instrumentation

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Related Products



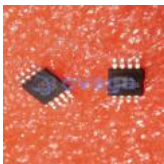
[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc
MSOP-8



[AD8062ARMZ](#)

Analog Devices, Inc
MSOP8



[AD8567ARUZ](#)

Analog Devices, Inc
TSSOP-14



[AD8628AUJZ](#)

Analog Devices, Inc
SOP23



[AD8022ARMZ](#)

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MSOP-8



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SOP-8