

LT1167 - Single Resistor Gain Programmable, Precision Instrumentation Amplifier; Package: SO; Pins: 8; Temperature Range: -40°C to 85°C

Manufacturers	Analog Devices, Inc
Package/Case	SOP8
Product Type	Amplifier ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LT1167AIS8 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT1167 is a low power, precision instrumentation amplifier that requires only one external resistor to set gains of 1 to 10,000. The low voltage noise of 7.5nV/√Hz (at 1kHz) is not compromised by low power dissipation (0.9mA typical for ±2.3V to ±15V supplies).

The part's high accuracy (10ppm maximum nonlinearity, 0.08% max gain error = 1) and PSRR (105dB,>

The LT1167, offered in 8-pin PDIP and SO packages, requires significantly less PC board area than discrete multi op amp and resistor designs.

The LT1167-1 offers the same performance as the LT1167, but its input current characteristic at high common mode voltage better supports applications with high input impedance (see the Applications Information section).

Features

Single Gain Set Resistor:>

Gain Error:>

Input Offset Voltage Drift: $0.3\mu\text{V}/^\circ\text{C}$ Max

Meets IEC 1000-4-2 Level 4 ESD Tests with Two External 5k Resistors

Gain Nonlinearity:>

Input Offset Voltage:>

Input Bias Current: 350pA Max

PSRR at>

CMRR at>

Supply Current: 1.3mA Max

Wide Supply Range: $\pm 2.3\text{V}$ to $\pm 18\text{V}$

1kHz Voltage Noise: $7.5\text{nV}/\sqrt{\text{Hz}}$

0.1Hz to 10Hz Noise: $0.28\mu\text{V}$ -P

Available in 8-Pin PDIP and SO Packages

Application

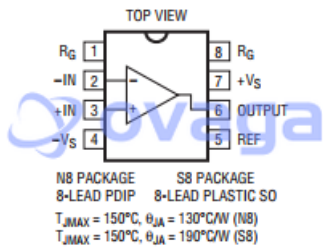
Bridge Amplifiers

Strain Gauge Amplifiers

Thermocouple Amplifiers

Differential to Single-Ended Converters

Medical Instrumentation



Related Products



[LTC1151CSW#PBF](#)

Analog Devices, Inc
 SOIC-16



[LT1498CS8](#)

Analog Devices, Inc
 SOP-8



[LTC2053CMS8](#)

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 MSOP8



[LTC1150CN8](#)

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 DIP8



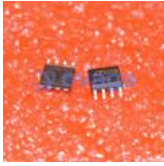
[LT1491ACS](#)

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SOP14



[LT6105IMS8](#)

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