

Single-Supply, Rail-to-Rail, Low Cost Instrumentation Amplifier

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



Images are for reference only

Please submit RFQ for AD623ARZ-R7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD623 is an integrated, single- or dual-supply instrumentation amplifier that delivers rail-to-rail output swing using supply voltages from 3 V to 12 V. The AD623 offers superior user flexibility by allowing single gain set resistor programming and by conforming to the 8-lead industry standard pinout configuration. With no external resistor, the AD623 is configured for unity gain.

The superior accuracy of the AD623 is the result of increasing common-mode rejection ratio (CMRR) coincident with increasing gain; line noise harmonics are rejected due to constant CMRR up to 200 Hz. The AD623 has a wide input common-mode range and amplifies signals with common-mode voltages as low as 150 mV below ground. The AD623 maintains superior performance with dual and single polarity power supplies.

Features

Easy to use

Rail-to-rail output swing

Input voltage range extends 150 mV below ground (single supply)

Low power, 550 μ A maximum supply current

Gain set with one external resistor

Gain range: 1 to 1000

High accuracy dc performance

0.10% gain accuracy \gg

0.35% gain accuracy ($G > 1$)

Noise: 35 nV/ $\sqrt{\text{Hz}}$ RTI noise at 1 kHz

Excellent dynamic specifications

800 kHz bandwidth \gg

20 μ s settling time to 0.01% \gg

Application

Low power medical instrumentation

Transducer interfaces

Thermocouple amplifiers

Industrial process controls

Difference amplifiers

Low power data acquisition



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 ICS - INTEGRATED CIRCUITS
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 Qty:
 1.000 PI
 28.11.2018
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COUNTRY OF ASSEMBLY: TAIWAN
 COUNTRY OF DIFFUSION: USA
 (Q)QTY: 1000
 (9)DATE CODE: 1836
 (T)LOT NUMBER: AD17886.8
 (P)MFG NO: AD623ARZ-R7

MSL 1
 PPBT - 280°C
 e3 BOX 14 OF 19

COMPLIANT
 RoHS
 2011/65/EU



Related Products



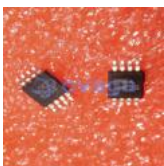
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