

Quad, Zero-Drift, Single-Supply, Rail-to-Rail Input/Output Operational Amplifier; Package: SOIC; No of Pins: 14; Temperature Range: Industrial



Images are for reference only

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-14
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	

Please submit RFQ for AD8574ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

This family of amplifiers has ultralow offset, drift, and bias current. The AD8571, AD8572, and AD8574 are single, dual, and quad amplifiers, respectively, featuring rail-to-rail input and output swings. All are guaranteed to operate from 2.7 V to 5 V single supply.

The AD8571/AD8572/AD8574 provide benefits previously found only in expensive auto-zeroing or chopper-stabilized amplifiers. Using Analog Devices, Inc., topology, these zero-drift amplifiers combine low cost with high accuracy. (No external capacitors are required.) Using a patented spread-spectrum, auto-zero technique, the AD8571/AD8572/AD8574 eliminate the intermodulation effects from interaction of the chopping function with the signal frequency in ac applications.

With an offset voltage of only 1 μV and drift of 0.005 $\mu\text{V}/^\circ\text{C}$, the AD8571/AD8572/AD8574 are perfectly suited for applications where error sources cannot be tolerated. Position and pressure sensors, medical equipment, and strain gage amplifiers benefit greatly from nearly zero drift over their operating temperature range. Many more systems require the rail-to-rail input and output swings provided by the AD8571/AD8572/AD8574.

The AD8574-EP supports defense and aerospace applications (AQEC standard)

Features

Low offset voltage: 1 μ V

Input offset drift: 0.005 μ V/ $^{\circ}$ C

Rail-to-rail input and output swing

5 V/2.7 V single-supply operation

High gain: 145 dB typical

CMRR: 140 dB typical

PSRR: 130 dB typical

See data sheet for additional features

AD8574-EP supports defense and aerospace applications (AQEC standard)

[Download\(pdf\)](#)

Military temperature range (-55° C to $+125^{\circ}$ C)

Controlled manufacturing baseline

One assembly/test site

One fabrication site

Enhanced product change notification

Qualification data available on request

V62/12634 DSCC Drawing Number

Application

Temperature sensors

Pressure sensors

Precision current sensing

Strain gage amplifiers

Medical instrumentation

Thermocouple amplifiers



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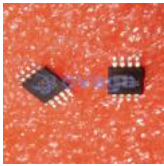
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