

Dual Precision Very Low Noise, Low Input Bias Current Operational Amplifier; Temperature Range: Industrial

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOIC-8
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD8672ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD8671/AD8672/AD8674 are very high precision amplifiers featuring very low noise, very low offset voltage and drift, low input bias current, 10 MHz bandwidth, and low power consumption. Outputs are stable with capacitive loads of over 1000 pF. Supply current is less than 3 mA per amplifier at 30 V.

The AD8671/AD8672/AD8674's combination of ultralow noise, high precision, speed, and stability is unmatched. The MSOP version of the AD8671/AD8672 requires only half the board space of comparable amplifiers.

Applications for these amplifiers include high quality PLL filters, precision filters, medical and analytical instrumentation, precision power supply controls, ATE, data acquisition, and precision controls as well as professional quality audio.

The AD8671/AD8672 are specified over the extended industrial temperature range (-40°C to +125°C), and the AD8674 is specified over the industrial temperature range (-40°C to +85°C).

The AD8671/AD8672 are available in the 8-lead SOIC and 8-lead MSOP packages. The AD8674 is available in 14-lead SOIC and 14-lead TSSOP packages.

Surface-mount devices in MSOP packages are available in tape and reel only.

Applications

PLL filters

Filters for GPS

Instrumentation

Sensors and controls

Professional quality audio

## Features

Very low noise: 2.8 nV/ $\sqrt{\text{Hz}}$ , 77 nV p-p

Wide Bandwidth: 10MHz

Low Input Bias Current: 12 nA max

Low Offset Voltage: 75  $\mu\text{V}$  max

High open loop gain: 120 dB min

Low supply current: 3 mA typ per amplifier

Dual supply operation:  $\pm 5\text{V}$  to  $\pm 15\text{V}$

Unity Gain Stable

No Phase Reversal

AD8672-EP supports defense and aerospace applications (AQEC standard)

Download (pdf)

Extended temperature range:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

Controlled manufacturing baseline

One assembly/test site

One fabrication site

Enhanced product change notification

Qualification data available on request

V62/16603 DSCC Drawing Number

## Application

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## Related Products



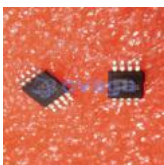
### [AD8418BRMZ-RL](#)

Analog Devices, Inc  
MSOP-8



### [ADA4528-2ARMZ-R7](#)

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### [ADA4084-2ARMZ](#)

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