

Operational Amplifier, Dual, 2 Amplifier, 650 MHz, 1000 V/ μ s, 5V to 12V, SOIC, 8 Pins

Manufacturers	Analog Devices, Inc
Package/Case	SOIC8
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD8008ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8007 (single) and AD8008 (dual) are high performance current feedback amplifiers with ultralow distortion and noise. Unlike other high performance amplifiers, the low price and low quiescent current allow these amplifiers to be used in a wide range of applications. Analog Devices, Inc., proprietary second-generation eXtra-Fast Complementary Bipolar (XFCB) process enables such high performance amplifiers with low power consumption.

The AD8007/AD8008 have 650 MHz bandwidth, 2.7 nV/ $\sqrt{\text{Hz}}$ voltage noise, -83 dB SFDR at 20 MHz (AD8007), and -77 dBc SFDR at 20 MHz (AD8008).

With the wide supply voltage range (5 V to 12 V) and wide bandwidth, the AD8007/AD8008 are designed to work in a variety of applications. The AD8007/AD8008 amplifiers have a low power supply current of 9 mA/amplifier.

The AD8007 is available in a tiny SC70 package as well as a standard 8-lead SOIC. The dual AD8008 is available in both an 8-lead SOIC and an 8-lead MSOP. These amplifiers are rated to work over the industrial temperature range of -40°C to +85°C.

Features

Extremely Low Distortion Second Harmonic-88 dBc @ 5 MHz-83 dBc @ 20 MHz (AD8007)-77 dBc @ 20 MHz (AD8008) Third Harmonic-101 dBc @ 5 MHz-92 dBc @ 20 MHz (AD8007)-98 dBc @ 20 MHz (AD8008)

High Speed 650 MHz, -3 dB bandwidth

Low noise 2.7 nV/ $\sqrt{\text{Hz}}$ input voltage noise 22.5 pA/ $\sqrt{\text{Hz}}$ input inverting current noise

Low power: 9 mA/amplifier typical supply current

Wide supply voltage range: 5 V to 12 V

0.5 mV typical input offset voltage

Small packaging: 8-lead SOIC, 8-lead MSOP, and 5-lead SC70

Application

Instrumentation

IF and baseband amplifiers

Filters

A/D drivers

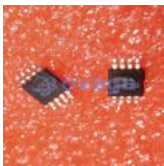
DAC buffers

Related Products



[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc
MSOP-8



[AD8567ARUZ](#)

Analog Devices, Inc
TSSOP-14



[AD8022ARMZ](#)

Analog Devices, Inc
MSOP-8



[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc
MSOP-8



[AD8062ARMZ](#)

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MSOP8



[AD8628AUJZ](#)

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SOP23



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SOP-8