

Operational Amplifier, Rail-to-Rail I/O, 2 Amplifier, 1 MHz, 0.92 V/ μ s, 2.7V to 5.5V, NSOIC, 8 Pins

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



Images are for reference only

Please submit RFQ for AD8542ARZ-REEL7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8541/AD8542/AD8544 are single, dual, and quad rail-to-rail input and output single-supply amplifiers featuring very low supply current and 1 MHz bandwidth. All are guaranteed to operate from a 2.7 V single supply as well as a 5 V supply. These parts provide 1 MHz bandwidth at a low current consumption of 45 μ A per amplifier.

Very low input bias currents enable the AD8541/AD8542/AD8544 to be used for integrators, photodiode amplifiers, piezoelectric sensors, and other applications with high source impedance. The supply current is only 45 μ A per amplifier, ideal for battery operation.

Rail-to-rail inputs and outputs are useful to designers buffering ASICs in single-supply systems. The AD8541/AD8542/AD8544 are optimized to maintain high gains at lower supply voltages, making them useful for active filters and gain stages.

The AD8541/AD8542/AD8544 are specified over the extended industrial temperature range (-40°C to $+125^{\circ}\text{C}$). The AD8541 is available in 8-lead SOIC, 5-lead SC70, and 5-lead SOT-23 packages. The AD8542 is available in 8-lead SOIC, 8-lead MSOP, and 8-lead TSSOP surface-mount packages. The AD8544 is available in 14-lead narrow SOIC and 14-lead TSSOP surface-mount packages. All MSOP, SC70, and SOT versions are available in tape and reel only.

Features

Single-supply operation: 2.7 V to 5.5 V

Low supply current: 45 μ A/amplifier

Wide bandwidth: 1 MHz

No phase reversal

Low input currents: 4 pA

Unity gain stable

Rail-to-rail input and output

Application

ASIC input or output amplifiers

Sensor interfaces

Piezoelectric transducer amplifiers

Medical instrumentations

Mobile communications

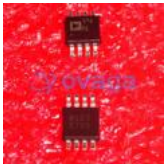
Audio outputs

Portable systems

Data Sheet, Rev. F, 1/08

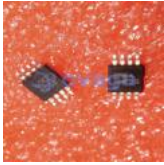


Related Products



[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc
MSOP-8



[AD8567ARUZ](#)

Analog Devices, Inc
TSSOP-14



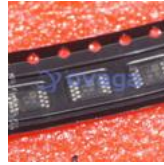
[AD8022ARMZ](#)

Analog Devices, Inc
MSOP-8



[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc
MSOP-8



[AD8062ARMZ](#)

Analog Devices, Inc
MSOP8



[AD8628AUJZ](#)

Analog Devices, Inc
SOP23



[AD8041AR](#)

Analog Devices, Inc
SOP-8