

ADA4522-1ARZ

Data Sheet

Precision Amplifiers 55V Low Noise Zero Drift OpAmp $1 \mathrm{x}$

Manufacturers	Analog Devices, Inc	1222 000
Package/Case	SOP8	
Product Type	Amplifier ICs	333.
RoHS	Pb-free Halide free	
Lifecycle		Images are for reference only

Please submit RFQ for ADA4522-1ARZ or Email to us: sales@oyaga.com We will contact you in 12 hours.

<u>RFQ</u>

General Description

The ADA4522-1 / ADA4522-2 / ADA4522-4 are single/dual/quadchannel, zero drift op amps with low noise and power, groundsensing inputs, and rail-to-rail output, optimized for totalaccuracy over time, temperature, and voltage conditions. Thewide operating voltage and temperature ranges, as well as thehigh open-loop gain and very low dc and ac errors make thedevices well suited for amplifying very small input signals andfor accurately reproducing larger signals in a wide variety of applications.

The ADA4522-1 / ADA4522-2 / ADA4522-4 performance isspecified at 5.0 V, 30 V, and 55 V power supply voltages. These devices operate over the range of 4.5 V to 55 V, and are excellent for applications using single-ended supplies of 5 V, 10 V, 12 V, and 30 V, or for applications using higher single supplies and dual supplies of ± 2.5 V, ± 5 V, and ± 15 V. The ADA4522-1 / ADA4522-2 / ADA4522-4 use on-chip filtering to achieve high immunity to electromagnetic interference (EMI).

The ADA4522-1 / ADA4522-2 / ADA4522-4 are fully specified over the extended industrial temperature range of -40°C to+125°C and are available in 8-lead MSOP, 8-lead SOIC, 14-leadSOIC, and 14-lead TSSOP packages.

Features

Low offset voltage: 5 μV maximum

Extremely low offset voltage drift: 22 nV/°C maximum

Low voltage noise density:

5.8 nV/√Hz typical

117 nV p-p typical from 0.1 Hz to 10 Hz

Low input bias current: 50 pA typical

Unity-gain crossover: 3 MHz typical

Single-supply operation: input voltage range includes ground and railto-rail output

Wide range of operating voltages

Single-supply operation: 4.5 V to 55 V

Dual-supply operation: ± 2.25 V to ± 27.5 V

Integrated EMI filters

Unity-gain stable

Related Products



AD8418BRMZ-RL Analog Devices, Inc MSOP-8





ADA4084-2ARMZ Analog Devices, Inc MSOP-8





Analog Devices, Inc

Analog Devices, Inc MSOP-8



Application



Analog Devices, Inc MSOP-8

AD8062ARMZ

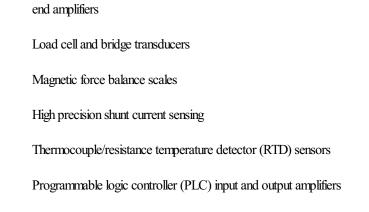
Analog Devices, Inc MSOP8

AD8628AUJZ

Analog Devices, Inc SOP23

AD8041AR

Analog Devices, Inc SOP-8



Inductance, capacitance, and resistance (LCR) meter/megohmmeter front-