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## ADA4522-1ARZ-R7

Data Sheet

Operational Amplifier, Rail-to-Rail, 1 Amplifier, 2.7 MHz, 1.7 V/µs, 4.5V to 55V, NSOIC, 8 Pins

Manufacturers	Analog Devices, Inc
Package/Case	SOP8
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for ADA4522-1ARZ-R7 or Email to us: sales@ovaga.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  $\pm 2.5$  V,  $\pm 5$  V, and  $\pm 15$  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

Application
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	<b>FF</b>
Low offset voltage: 5 $\mu$ V maximum	Inductance, capacitance, and resistance (LCR) meter/megohmmeter front- end amplifiers
Extremely low offset voltage drift: 22 nV/°C maximum	
Low voltage noise density:	Load cell and bridge transducers
5.8 nV/ $\sqrt{\text{Hz}}$ typical	Magnetic force balance scales
117 nV p-p typical from 0.1 Hz to 10 Hz	High precision shunt current sensing
	Thermocouple/resistance temperature detector (RTD) sensors
Low input bias current: 50 pA typical	Programmable logic controller (PLC) input and output amplifiers
Unity-gain crossover: 3 MHz typical	
Single-supply operation: input voltage range includes ground and rail- to-rail output	
Wide range of operating voltages	
Single-supply operation: 4.5 V to 55 V	
Dual-supply operation: $\pm 2.25$ V to $\pm 27.5$ V	
Integrated EMI filters	

Unity-gain stable





#### **Related Products**



AD8418BRMZ-RL Analog Devices, Inc



MSOP-8

Analog Devices, Inc MSOP-8

ADA4084-2ARMZ





### ADA4528-2ARMZ-R7

Analog Devices, Inc MSOP-8

#### AD8062ARMZ

Analog Devices, Inc MSOP8



AD8567ARUZ

Analog Devices, Inc TSSOP-14



AD8628AUJZ

Analog Devices, Inc SOP23



AD8022ARMZ

Analog Devices, Inc MSOP-8



<u>AD8041AR</u>

Analog Devices, Inc SOP-8