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AD8420ARMZ

Data Sheet

Instrument Amplifier, 3 Amplifier, 200 $\mu V,$ 1 V/µs, 2.5 kHz, 2.7V to 36V, \pm 2.7V to \pm 18V, MSOP

Manufacturers	Analog Devices, Inc
Package/Case	MSOP-8
Product Type	Amplifier ICs
RoHS	Pb-free Halide free



Images are for reference only

Please submit RFQ for AD8420ARMZ or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

General Description

Lifecycle

The AD8420 is a low cost, micropower, wide supply range, instrumentation amplifier with a rail-to-rail output and a novel architecture that allows for extremely flexible design. It is optimized to amplify small differential voltages in the presence of large common-mode signals.

The AD8420 is based on an indirect current feedback architecture that gives it an excellent input common-mode range. Unlike conventional instrumentation amplifiers, the AD8420 can easily amplify signals at or even slightly below ground without requiring dual supplies. The AD8420 has rail-to-rail output, and the output voltage swing is completely independent of the input common-mode voltage.

Single-supply operation, micropower current consumption, and rail-to-rail output swing make the AD8420 ideal for battery-powered applications. Its rail-to-rail output stage maximizes dynamic range when operating from low supply voltages. Dual-supply operation (± 15 V) and low power consumption make the AD8420 ideal for a wide variety of applications in medical or industrial instrumentation.

The AD8420 is available in an 8-lead MSOP package. Performance is specified over the full temperature range of -40° C to $+85^{\circ}$ C, and the part is operational from -40° C to $+125^{\circ}$ C

Features

Maximum supply current: 90 µA

Minimum CMRR: 100 dB

Drives heavy capacitive loads: ~700 pF

Rail-to-rail output

Input voltage range goes below ground

Gain set with 2 external resistorsCan achieve low gain drift at any gain

Very wide power supply rangeSingle supply: 2.7 V to 36 VDual supply: ± 2.7 V to ± 18 V

Bandwidth>

Input voltage noise: 55 nV/ \sqrt{Hz}

See data sheet for additional features

Application

Bridge amplifiers

Pressure Measurement

Medical instrumentation

Portable data acquisition

Multichannel systems





Related Products



Analog Devices, Inc MSOP-8

AD8418BRMZ-RL



ADA4084-2ARMZ Analog Devices, Inc



Analog Devices, Inc MSOP-8

Analog Devices, Inc TSSOP-14

AD8567ARUZ





ADA4528-2ARMZ-R7

Analog Devices, Inc MSOP-8

AD8062ARMZ



AD8628AUJZ

Analog Devices, Inc SOP23



AD8022ARMZ

Analog Devices, Inc MSOP-8



AD8041AR Analog Devices, Inc SOP-8