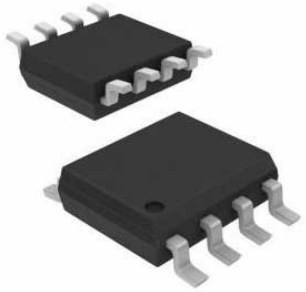
AD8032ARZ

Data Sheet

Operational Amplifier, Dual, 2 Amplifier, 80 MHz, 35 V/µs, 2.7V to 12V, SOIC, 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 AD8032ARZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The AD8032 (dual) is a single supply voltage feedback amplifier that features high speed performance with 80 MHz of small signal bandwidth, 30 V/µs slew rate and 125 ns settling time. This performance is possible while consuming less than 4.0 mW of power from a single +5 V supply. This feature increases the operation time of high speed, battery-powered systems without compromising dynamic performance.

The AD8032 has true single supply capability with rail-to-rail input and output characteristics and is specified for +2.7 V, +5 V, and ±5 V supplies. The input voltage range can extend to 500 mV beyond each rail. The output voltage swings to within 20 mV of each rail providing the maximum output dynamic range.

The AD8032 also offers excellent signal quality for only 800 µA of supply current per amplifier; THD is -62 dBc with a 2 V p-p, 1 MHz output signal, and -86 dBc for a 100 kHz, 4.6 V p-p signal on +5 V supply. The low distortion and fast settling time makes it ideal as a buffer to single supply ADCs.

Operating on supplies from +2.7 V to +12 V and dual supplies up to ±6 V, the AD8032 is ideal for a wide range of applications, from battery operated systems with large bandwidth requirements to high speed systems where component density requires lower power dissipation. The AD8032 is available in 8-lead PDIP, 8-lead SOIC_N, and 8-lead MSOP packages and operates over the industrial temperature range of -40°C to +85°C.

AD8031 - Single Amplifier

Features

Low powerSupply current 800 µA/amplifierFully specified at +2.7 V, +5 V and ±5 V supplies

High speed and fast settling on 5 V80 MHz, –3 dB bandwidth>

Low distortion–62 dB @ 1 MHz, = 4.6 V p-p

Rail-to-rail input and outputNo phase reversal with input 0.5 V beyond suppliesInput CMVR extends beyond rails by 200 mVOutput swing to within 20 mV of either rail

Output current: 15 mA

High grade optionVOS>

Related Products

AD8418BRMZ-RL

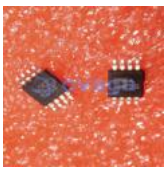
Analog Devices, Inc

MSOP-8

ADA4528-2ARMZ-R7

Analog Devices, Inc

MSOP-8



ADA4084-2ARMZ

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

AD8041AR

Analog Devices, Inc

SOP-8