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Data Sheet

RFO

Programmable/Variable Amplifier, 1 Channels, 2 Amplifier, 600 kHz, -40 °C, 85 °C, \pm 2.25V to \pm 18V

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



Images are for reference only

Please submit RFQ for AD628ARZ or Email to us: sales@ovaga.com We will contact you in 12 hours.

General Description

The AD628 is a precision difference amplifier that combines excellent dc performance with high common-mode rejection over a wide range of frequencies. When used to scale high voltages, it allows simple conversion of standard control voltages or currents for use with single-supply ADCs. A wideband feedback loop minimizes distortion effects due to capacitor charging of Σ - Δ ADCs.

A reference pin (VREF) provides a dc offset for converting bipolar to single-sided signals. The AD628 converts +5 V, +10 V, ±5 V, ±10 V, and 4 to 20 mA input signals to a single-ended output within the input range of single-supply ADCs.

The AD628 has an input common mode and differential mode operating range of ± 120 V. The high common mode, input impedance makes the device well suited for high voltage measurements across a shunt resistor. The inverting input of the buffer amplifier is available for making a remote Kelvin connection.

A precision 10 k Ω resistor connected to an external pin is provided for either a low-pass filter or to attenuate large differential input signals. A single capacitor implements a low-pass filter. The AD628 operates from single and dual supplies and is available in an 8-lead SOIC_N or an 8-lead MSOP. It operates over the standard industrial temperature range of -40°C to +85°C.

Features

Application

High common-mode input voltage range ± 120 V at>	High voltage current shunt sensing
Gain range 0.1 to 100	Programmable logic controllers
erating temperature range: -40°C to +85°C	Analog input front end signal conditioning $+5$ V, $+10$ V, ±5 V, ±10 V, and 4 to 20 mA
Supply voltage range Dual supply: ± 2.25 V to ± 18 V Single supply: 4.5 V to 36 V	Isolation Sensor signal conditioning
Excellent ac and dc performance	Power supply monitoring
Offset temperature stability RTI: 10 μ V/°C maximum	Electrohydraulic controls
Offset: ±1.5 V mV maximum	Motor controls
CMRR RTI: 75 dB minimum, dc to 500>	





Related Products



AD8418BRMZ-RL Analog Devices, Inc MSOP-8



ADA4084-2ARMZ Analog Devices, Inc MSOP-8

AD8567ARUZ

TSSOP-14

MSOP-8

Analog Devices, Inc





AD8022ARMZ Analog Devices, Inc







AD8041AR Analog Devices, Inc SOP-8

ADA4528-2ARMZ-R7

Analog Devices, Inc MSOP-8

AD8062ARMZ

Analog Devices, Inc MSOP8

AD8628AUJZ

Analog Devices, Inc SOP23