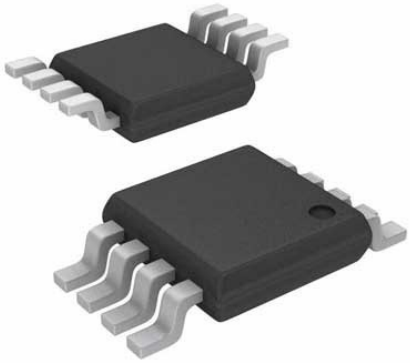
AD8209WBRMZ

Data Sheet

High Voltage, Precision Difference Amplifier; No of Pins: 8; Temperature Range: Ind

Manufacturers	Analog Devices, Inc
Package/Case	MSOP8
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8209WBRMZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The AD8209 is a single-supply difference amplifier ideal for amplifying and low-pass filtering small differential voltages in the presence of a large common-mode voltage. The input common-mode voltage range extends from −2 V to +45 V at a single +5 V supply. The AD8209 is qualified per AEC-Q100 specifications. The amplifier offers enhanced input overvoltage and ESD protection, and includes EMI filtering.

Automotive applications demand robust, precision components for improved system control. The AD8209 provides excellent ac and dc performance, minimizing errors in the application. Typical offset and gain drift in the MSOP package are less than 5 µV/°C and 10 ppm/°C, respectively. The device also delivers a minimum CMRR of 80 dB from dc to 10 kHz.

The AD8209 features an externally accessible 100 kΩ resistor at the output of the preamplifier (A1), which can be used for low-pass filtering and for establishing gains other than 14.

Applications
High-side current sensing

– Motor controls– Solenoid controls– Power management
Low-side current sensing

Diagnostic protection

Features

AEC-Q100 qualified

EMI filters included

High common-mode voltage range

Buffered output>

Low-pass filter (single-pole or two-pole)

Wide operating temperature range

Excellent ac and dc performance

80 dB CMRR minimum dc to 10 kHz

Qualified for automotive applications

Application

High-side current sensing

Low-side current sensing

Diagnostic protection

Related Products

AD8418BRMZ-RL

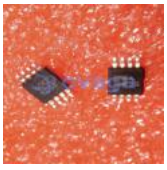
Analog Devices, Inc

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

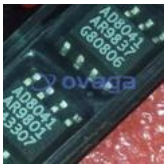
Analog Devices, Inc

SOP23

AD8022ARMZ

Analog Devices, Inc

MSOP-8



AD8041AR

Analog Devices, Inc

SOP-8