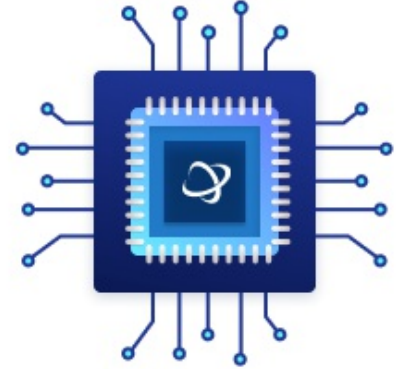


Current Sense Amplifier, Bidirectional, 1 Amplifier, 130  $\mu$ A, MSOP, 8 Pins, -40  $^{\circ}$ C, 125  $^{\circ}$ C

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	RM-8
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD8417WBRMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD8417 is a high voltage, high resolution current shunt amplifier. It features an initial gain of 60 V/V, with a maximum  $\pm 0.3\%$  gain error over the entire temperature range. The buffered output voltage directly interfaces with any typical converter. The AD8417 offers excellent input common-mode rejection from -2 V to +70 V. The AD8417 performs bidirectional current measurements across a shunt resistor in a variety of automotive and industrial applications, including motor control, power management, and solenoid control.

The AD8417 offers breakthrough performance throughout the -40 $^{\circ}$ C to +150 $^{\circ}$ C temperature range. It features a zero drift core, which leads to a typical offset drift of 0.1  $\mu$ V/ $^{\circ}$ C throughout the operating temperature range and the common-mode voltage range. The AD8417 is qualified for automotive applications. The device includes EMI filters and patented circuitry to enable output accuracy with pulse-width modulation (PWM) type input common-mode voltages. The typical input offset voltage is  $\pm 200$   $\mu$ V. The AD8417 is offered in 8-lead MSOP and SOIC packages.

## Features

Typical 0.1  $\mu\text{V}/^\circ\text{C}$  offset drift

Maximum  $\pm 400$   $\mu\text{V}$  voltage offset over full temperature range

2.7 V to 5.5 V power supply operating range

Electromagnetic interference (EMI) filters included

High common-mode input voltage range

Initial

Wide operating temperature range

AD8417WB:  $-40^\circ\text{C}$  to  $+125^\circ\text{C}$

AD8417WH:  $-40^\circ\text{C}$  to  $+150^\circ\text{C}$

Bidirectional operation

Available in 8-lead SOIC and 8-lead MSOP

Common-mode rejection ratio (CMRR): 86 dB, dc to 10 kHz

Qualified for automotive applications

## Application

High-side current sensing in

Motor controls

Solenoid controls

Power management

Low-side current sensing

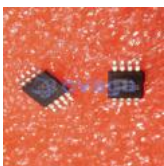
Diagnostic protection

## Related Products



### [AD8418BRMZ-RL](#)

Analog Devices, Inc  
MSOP-8



### [ADA4084-2ARMZ](#)

Analog Devices, Inc  
MSOP-8



### [AD8567ARUZ](#)

Analog Devices, Inc  
TSSOP-14



### [AD8022ARMZ](#)

Analog Devices, Inc  
MSOP-8



### [ADA4528-2ARMZ-R7](#)

Analog Devices, Inc  
MSOP-8



### [AD8062ARMZ](#)

Analog Devices, Inc  
MSOP8



### [AD8628AUJZ](#)

Analog Devices, Inc  
SOP23



### [AD8041AR](#)

Analog Devices, Inc  
SOP-8