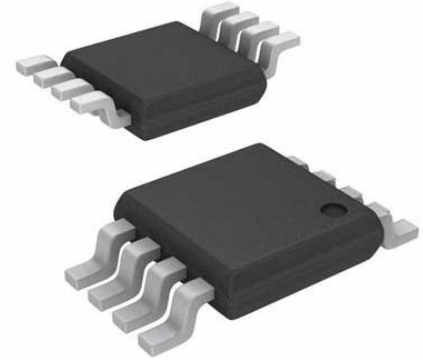


Current Sense Amplifier, Zero Drift, 1 Amplifier, 130  $\mu$ A, MSOP, 8 Pins, -40  $^{\circ}$ C, 125  $^{\circ}$ C

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MSOP-8
Product Type	Specialty Amplifiers ; Current Sense Amplifiers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8218BRMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD8218 is a high voltage, high resolution current shunt amplifier. It features a set gain of 20 V/V, with a maximum  $\pm 0.35\%$  gain error over the entire temperature range. The buffered output voltage directly interfaces with any typical converter. The AD8218 offers excellent input common-mode rejection from 4 V to 80 V. The AD8218 performs bidirectional current measurements across a shunt resistor in a variety of industrial and telecom applications, including motor control, battery management, and base station power amplifier bias control.

The AD8218 offers breakthrough performance throughout the  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  temperature range. It features a zero-drift core, which leads to a typical offset drift of  $\pm 100$  nV/ $^{\circ}\text{C}$  throughout the operating temperature range and the common-mode voltage range. Special attention is devoted to output linearity being maintained throughout the input differential voltage range of 0 mV to  $\sim 250$  mV. The AD8218 also includes an internal 80 mV reference that can be enabled for optimal dynamic range in unidirectional current sense applications. The typical input offset voltage is  $\pm 50$   $\mu$ V.

The AD8218 is offered in an 8-lead MSOP package.

### Applications

High-side current sensing  
48V telecom

### Power Management

### Base Stations

### Bidirectional motor control

### Precision high voltage current sources

## Features

High common-mode voltage range-- 4 V to 80 V operating-- -0.3 V to 85 V survival

Buffered output>

Wide operating temperature range: -40°C to +125°C

Excellent ac and dc performance--  $\pm 100$  nV/°C typical offset drift--  $\pm 50$   $\mu$ V typical offset--  $\pm 5$  ppm/°C typical gain drift-- 110 dB typical CMRR at dc

## Application

High-side current sensing

48V telecom

Power Management

Base Stations

Bidirectional motor control

Precision high voltage  
current sources

## Related Products



### [ADP3336ARMZ-REEL7](#)

Analog Devices, Inc  
MSOP-8



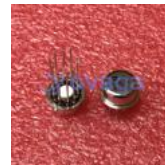
### [AD737JRZ](#)

Analog Devices, Inc  
SOP-8



### [ADP3367ARZ](#)

Analog Devices, Inc  
SOIC-8



### [AD636JH](#)

Analog Devices, Inc  
TO-100-10



### [ADP3330ARTZ3.3-RL7](#)

Analog Devices, Inc  
SOT-23-6



### [ADR434BRZ](#)

Analog Devices, Inc  
SOIC-8



### [ADR421ARZ](#)

Analog Devices, Inc  
SOP-8



### [ADR3412ARJZ-R7](#)

Analog Devices, Inc  
SOT-23-6