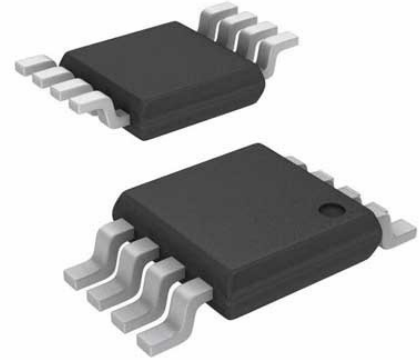


Current Sense Amplifiers High Res Zero-Drift

Manufacturers	Analog Devices, Inc
Package/Case	MSOP-8
Product Type	Specialty Amplifiers ; Current Sense Amplifiers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8217BRMZ-R7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8217 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 AD8217 offers excellent common-mode rejection from 4.5 V to 80 V, and includes an internal LDO, which directly powers the device from the high voltage rail. Therefore, no additional supply is necessary, provided that the input common-mode range is 4.5 V to 80 V. The AD8217 performs unidirectional 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 AD8217 offers breakthrough performance throughout the -40°C to $+125^{\circ}\text{C}$ temperature range. It features a zero-drift core, which leads to a typical offset drift of ± 100 nV/ $^{\circ}\text{C}$ throughout the operating temperature and common-mode voltage range. Special attention is devoted to output linearity being maintained throughout the input differential voltage range of 0 mV to 250 mV, regardless of the common-mode voltage present, and the typical input offset voltage is ± 100 μV . The AD8217 is offered in a 8-lead MSOP package and is specified from -40°C to $+125^{\circ}\text{C}$.

Applications

High side current sensing 48 V telecom Power management Base stations Unidirectional motor control Precision high voltage current sources

Features

High common-mode voltage range 4.5 V to 80 V operating 0 V to 85 V survival

Buffered output voltage

Wide operating temperature range: -40°C to $+125^{\circ}\text{C}$

Excellent ac and dc performance ± 100 nV/ $^{\circ}\text{C}$ typical offset drift ± 100 μV typical offset ± 5 ppm/ $^{\circ}\text{C}$ typical gain drift 100 dB typical CMRR at dc

Application

High side current sensing 48 V telecom Power management Base stations Unidirectional motor control Precision high voltage current sources

Related Products



[ADP3336ARMZ-REEL7](#)

Analog Devices, Inc
MSOP-8



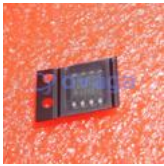
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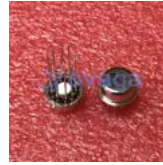
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