

SP Amp DIFF AMP Single R-R O/P $\pm 6V/12V$ Automotive 8-Pin SOIC N T/R

Manufacturer:	Analog Devices, Inc	AD8137YRZ-REEL7 Image
Package/Case:	SOP8	Images are for reference only
Product Type:	Amplifier ICs	Inquiry
RoHS:	RoHS Compliant/Lead free 	
Lifecycle:	Active	

General Description

The AD8137 is a low cost differential driver with a rail-to-rail output that is ideal for driving ADCs in systems that are sensitive to power and cost. The AD8137 is easy to apply, and its internal common-mode feedback architecture allows its output common-mode voltage to be controlled by the voltage applied to one pin. The internal feedback loop also provides inherently balanced outputs as well as suppression of even-order harmonic distortion products. Fully differential and single-ended-to-differential gain configurations are easily realized by the AD8137. External feedback networks consisting of four resistors determine the closed-loop gain of the amplifier. The power-down feature is beneficial in critical low power applications.

The AD8137 is manufactured on Analog Devices, Inc., proprietary second-generation XFCB process, enabling it to achieve high levels of performance with very low power consumption.

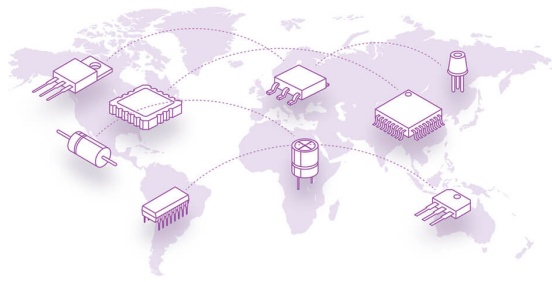
The AD8137 is available in the small 8-lead SOIC package and 3 mm \times 3 mm LFCSP package. It is rated to operate over the extended industrial temperature range of -40°C to $+125^{\circ}\text{C}$.

Key Features

- Fully differential
- Extremely low power with power-down feature 2.6 mA quiescent supply current @ 5 V 450 μA in power-down mode @ 5 V
- High Speed
- 12-bit SFDR performance @ 500 kHz
- Fast settling time: 100 ns to 0.02%
- Low input offset voltage: ± 2.6 mV max
- Low input offset current: 0.45 μA max
- Differential input and output
- Differential-to-differential or single-ended-to-differential operation
- Rail-to-rail output
- Adjustable output common-mode voltage
- See data sheet for additional features

Application

- ADC drivers
- Portable instrumentation
- Battery-powered applications
- Single-ended-to-differential converters
- Differential active filters
- Video amplifiers
- Level shifters



Recommended For You

AD8309ARUZ

Analog Devices, Inc
TSSOP16

AD524BDZ

Analog Devices, Inc
CDIP-16

AD8221BR

Analog Devices, Inc
SOP-8

AD8221ARZ

Analog Devices, Inc
SOP8

AD627BRZ

Analog Devices, Inc
SOP8

AD622ANZ

Analog Devices, Inc
DIP8

ADA4930-2YCPZ-R7

Analog Devices, Inc
LFCSP24

AD8034ARZ

Analog Devices, Inc
SOP8

AD8561ARZ

Analog Devices, Inc
SOP8

AD633JRZ

Analog Devices, Inc
SOP8

AD632AH

Analog Devices, Inc
CAN10

AD8422BRZ

Analog Devices, Inc
SOP8

ADCMP600BKSZ-R2

Analog Devices, Inc
SC70-5

AD620BN

Analog Devices, Inc
DIP8

AD620BR

Analog Devices, Inc
SOP