AD8137YRZ

SP Amp DIFF AMP Single R-R O/P ±6V/12V Automotive 8-Pin SOIC N Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	SOP8
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

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 × 3 mm LFCSP package. It is rated to operate over the extended industrial temperature range of −40°C to +125°C.

Key Features

High speed

Extremely low power with power-down feature

2.6mA Quiescent supply current at 5V

450µA in power-down mode at 5V

12-bit SFDR performance at 500kHz

100ns to 0.02% fast settling time

±2.6mV Maximum low input offset voltage

0.45µA Maximum low input offset current

Differential-to-differential or single-ended-to-differential operation

Adjustable output common-mode voltage

Externally adjustable gain

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