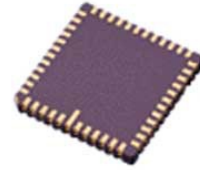


MEMS Accelerometer, Analogue, X, Y, Z,  $\pm 10g$ ,  $\pm 20g$ , 2.25 V, 3.6 V, LCC

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	LCC-14
Product Type	Motion & Position Sensors
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADXL356BEZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The analog output ADXL356 and the digital output ADXL357 are low noise density, low 0 g offset drift, low power, 3-axis accelerometers with selectable measurement ranges. The ADXL356B supports the  $\pm 10$  g and  $\pm 20$  g ranges, the ADXL356C supports the  $\pm 10$  g and  $\pm 40$  g ranges, and the ADXL357 supports the  $\pm 10.24$  g,  $\pm 20.48$  g, and  $\pm 40.96$  g ranges.

The ADXL356/ADXL357 offer industry leading noise, minimal offset drift over temperature, and long-term stability, enabling precision applications with minimal calibration.

The low drift, low noise, and low power ADXL357 enables accurate tilt measurement in an environment with high vibration, such as airborne IMUs. The low noise of the ADXL356 over higher frequencies is ideal for wireless condition monitoring.

The ADXL357 multifunction pin names may be referenced only by their relevant function for either the SPI or limited I2C interface.

### Applications

Inertial measurement units (IMUs)/altitude and heading reference systems (AHRSS)

Platform stabilization systems

Structural health monitoring

Seismic imaging

Tilt sensing

Robotics

Condition monitoring

## Features

Hermetic package offers excellent long-term stability

0 g offset vs. temperature (all axes): 0.75 mg/°C maximum

Ultralow noise density (all axes): 80  $\mu\text{g}/\sqrt{\text{Hz}}$

Low power, VSUPPLY (LDO enabled)

Measurement mode: 150  $\mu\text{A}$

Standby mode: 21  $\mu\text{A}$

User adjustable analog output bandwidth

Integrated temperature sensor

Voltage range options

VSUPPLY with internal regulators: 2.25 V to 3.6 V

VIP8ANA, VIP8DIG with internal low dropout (LDO) regulator bypassed:  
1.8 V typical  $\pm$  10%

14-terminal, 6.0 mm  $\times$  5.6 mm  $\times$  2.05 mm, LCC package, 0.26 grams

ADXL356-EP supports defense and aerospace applications (AQEC standard)

[Download\(pdf\)](#)

Military temperature range:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

Controlled manufacturing baseline

One assembly/test site

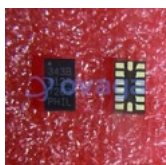
One fabrication site

Product change notification

Qualification data available on request

V62/18610 DSCC Drawing Number

## Related Products



[ADXL343BCCZ](#)

Analog Devices, Inc  
LGA-14



[ADXL335BCPZ-RL7](#)

Analog Devices, Inc  
LFCSP16

## Application

Inertial measurement units (IMUs)/altitude and heading reference systems (AHRSs)

Platform stabilization systems

Structural health monitoring

Seismic imaging

Tilt sensing

Robotics

Condition monitoring



[ADXL103CE](#)

Analog Devices, Inc  
CLCC-8



[ADXRS642BBGZ](#)

Analog Devices, Inc  
CBGA-32



[ADXL346ACCZ-RL7](#)

Analog Devices, Inc  
LGA16



[ADIS16488BMLZ](#)

Analog Devices, Inc  
MSM24



[ADXL357BEZ](#)

Analog Devices, Inc  
LCC-14



[ADXL345BCCZ-RL7](#)

Analog Devices, Inc  
LGA-14