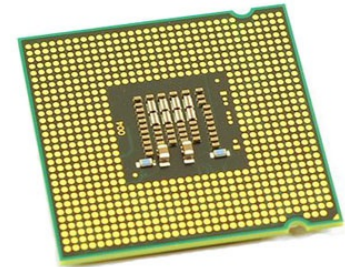


MEMS Accelerometer, 3-Axis, Digital, X, Y, Z,  $\pm 200g$ , 2 V, 3.6 V, LGA

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



Images are for reference only

Please submit RFQ for ADXL375BCCZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADXL375 is a small, thin, 3-axis MEMS accelerometer that provides low power consumption and high resolution measurement up to  $\pm 200g$ . The digital output data is formatted as 16-bit, twos complement data and is accessible through a SPI (3- or 4-wire) or I2C digital interface.

An integrated memory management system with a 32-level first in, first out (FIFO) buffer can be used to store data to minimize host processor activity and lower overall system power consumption.

Low power modes enable intelligent motion-based power management with threshold sensing and active acceleration measurement at extremely low power dissipation.

The ADXL375 is supplied in a small, thin,  $3\text{ mm} \times 5\text{ mm} \times 1\text{ mm}$ , 14-lead LGA.

## Features

Low power: as low as 35  $\mu$ A in measurement mode and 0.1  $\mu$ A in standby mode at >

Power consumption scales automatically with bandwidth

Embedded, 32-level FIFO buffer minimizes processor load

Bandwidth of up to 1 kHz Bandwidth selectable via serial command

Shock event detection

Activity/inactivity monitoring

Supply voltage range: 2.0 V to 3.6 V

I/O voltage range: 1.7 V to VS

SPI (3- or 4-wire) and I2C digital interfaces

Wide temperature range:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

10,000 g shock survival

Pb free/RoHS compliant

Small and thin: 3 mm  $\times$  5 mm  $\times$  1 mm LGA package

ADXL375-EP supports defense and aerospace applications (AQEC standard)

[Download ADXL375-EP Data Sheet \(pdf\)](#)

Extended industrial temperature range:  $-55^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$

Controlled manufacturing baseline

1 assembly/test site

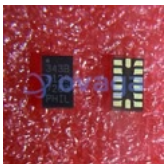
1 fabrication site

Product change notification

Qualification data available on request

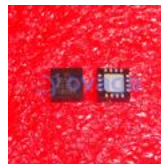
V62/ 18612 DSCC Drawing Number

## Related Products



[ADXL343BCCZ](#)

Analog Devices, Inc  
LGA-14



[ADXL335BCPZ-RL7](#)

Analog Devices, Inc  
LFCSP16

## Application

Concussion and head trauma detection

High force event detection



[ADXL103CE](#)

Analog Devices, Inc  
CLCC-8



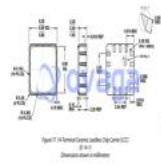
[ADIS16488BMLZ](#)

Analog Devices, Inc  
MSM24



[ADXRS642BBGZ](#)

Analog Devices, Inc  
CBGA-32



[ADXL357BEZ](#)

Analog Devices, Inc  
LCC-14



[ADXL346ACCZ-RL7](#)

Analog Devices, Inc  
LGA16



[ADXL345BCCZ-RL7](#)

Analog Devices, Inc  
LGA-14