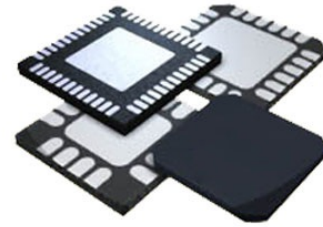


Accelerometer Single $\pm 50g$ 5V 40mV/g 32-Pin LFCSP EP Tray

Manufacturers	Analog Devices, Inc
Package/Case	QFN
Product Type	Motion & Position Sensors
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADXL1002BCPZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADXL1001/ADXL1002 deliver ultralow noise density over an extended frequency range with two full-scale range options, and are optimized for industrial condition monitoring. The ADXL1001 ($\pm 100g$) and the ADXL1002 ($\pm 50g$) have typical noise densities of $30 \mu g/\sqrt{Hz}$ and $25 \mu g/\sqrt{Hz}$, respectively. Both accelerometer devices have stable and repeatable sensitivity, which is immune to external shocks up to 10,000 g.

The ADXL1001/ADXL1002 have an integrated full electrostatic self test (ST) function and an overrange (OR) indicator that allow advanced system level features and are useful for embedded applications. With low power and single-supply operation of 3.3 V to 5.25 V, the ADXL1001/ADXL1002 also enable wireless sensing product design. The ADXL1001/ADXL1002 are available in a $5 \text{ mm} \times 5 \text{ mm} \times 1.80 \text{ mm}$ LFCSP package, and are rated for operation over a -40°C to $+125^\circ\text{C}$ temperature range.

Features

Single in plane axis accelerometer with analog output

Linear frequency response range from dc to 11 kHz (3 dB point)

Resonant frequency of 21 kHz

Ultralow noise density

25 $\mu\text{g}/\sqrt{\text{Hz}}$ in ± 50 g range

Overrange sensing plus dc coupling allows fast recovery time

Complete electromechanical self-test

Sensitivity performance

Sensitivity stability over temperature 5%

Linearity to $\pm 0.1\%$ of full-scale range

Cross axis sensitivity $\pm 1\%$ (ZX), $\pm 1\%$ (YX),

Single-supply operation

Output voltage ratiometric to supply

Low power consumption 1.0 mA

Power saving standby operation mode with fast recovery

RoHS compliant

5 mm \times 5 mm \times 1.80 mm LFCSP package

Application

Condition monitoring

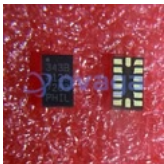
Predictive maintenance

Asset health

Test and measurement

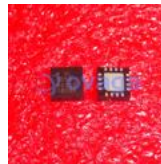
Health usage monitoring system (HUMS)

Related Products



[ADXL343BCCZ](#)

Analog Devices, Inc
LGA-14



[ADXL335BCPZ-RL7](#)

Analog Devices, Inc
LFCSP16



[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