

ADXL357BEZ

Data Sheet

0.508

RFO

Accelerometer Triple ± 10.24 g/ ± 20.48 g/ ± 40.96 g 2.5V 73.6mV/g to 86.4mV/g/36.8mV/g to 43.2mV/g/18.4mV/g to 21.6mV/g 14-Pin CLLCC Tray

Manufacturers	Analog Devices, Inc	R 0 030 (14 PLCS) (14 PLCS) (15 PLCS
Package/Case	LCC-14	Figure 77. 14-Terminal Ceramic Leadless Chip Carrier [LCC] (E-14-1) Dimensions shown in millimeters
		Images are for reference only
Product Type	Motion & Position Sensors	
RoHS		
Lifecycle		

Please submit RFQ for ADXL357BEZ or Email to us: sales@ovaga.com We will contact you in 12 hours.

General Description

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

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 higherfrequencies is ideal for wireless condition monitoring.

The ADXL357 multifunction pin names may be referenced by their relevant function only for either the SPI or 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	Inertial measurement units (IMUs)/altitude and heading reference systems (AHRSs)		
0 g offset vs. temperature (all axes): 0.75 mg/°C maximum Ultralow noise density (all axes): 80 μ g/ \sqrt{Hz}	Platform stabilization systems		
Low power, VSUPPLY (LDO enabled)	Structural health monitoring		
Measurement mode: 200 µA	Tilt sensing		
Standby mode: 21 µA Digital output features	Robotics		
Digital serial peripheral interface (SPI)/I2C interfaces	Condition monitoring		
20-bit analog-to-digital converter (ADC)			
Data interpolation routine for synchronous sampling			
Programmable high- and low-pass digital filters			
Integrated temperature sensor Voltage range options			

Application

VSUPPLY with internal regulators: 2.25 V to 3.6 V

V1P8ANA, V1P8DIG with internal low dropout regulator (LDO) by passed: 1.8 V typical \pm 10%

Operating temperature range: -40°C to +125°C

14-terminal, 6 mm × 6 mm × 2.1 mm, LCC package, 0.26 grams





Figure 2. ADXL357

Related Products



ADXL343BCCZ

Analog Devices, Inc LGA-14



ADXL335BCPZ-RL7

Analog Devices, Inc LFCSP16

ADIS16488BMLZ

Analog Devices, Inc MSM24

ADXL346ACCZ-RL7

Analog Devices, Inc LGA16

ADXL325BCPZ-RL7

Analog Devices, Inc 16-LFCSP

ADXL103CE Analog Devices, Inc CLCC-8



ADXRS642BBGZ Analog Devices, Inc CBGA-32



ADXL345BCCZ-RL7

Analog Devices, Inc LGA-14

