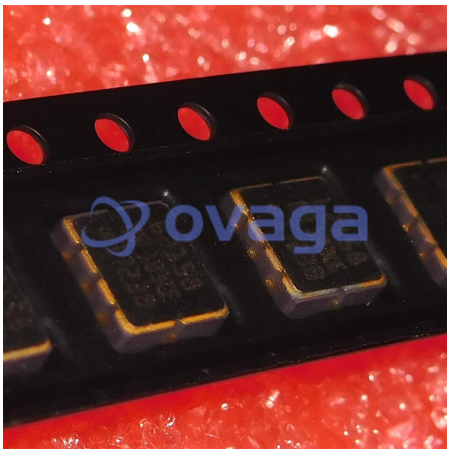
ADXL103CE

Data Sheet

Accelerometer Single ±1.7g 3.3V 960mV/g to 1040mV/g 8-Pin CLLCC Tube

Manufacturers	Analog Devices, Inc
Package/Case	CLCC-8
Product Type	Motion & Position Sensors
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADXL103CE or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The ADXL103 is a high precision, low power, complete single-axis accelerometer with signal conditioned voltage outputs, all on a single, monolithic IC. The ADXL103 measures acceleration with a full-scale range of±1.7 g, ±5 g, or ±18 g. The ADXL103 can measure both dynamic acceleration (for example, vibration) and static acceleration (for example, gravity).

The typical noise floor is 110 µg/√Hz, allowing signals below 1 mg (0.06° of inclination) to be resolved in tilt sensing applications using narrow bandwidths (<60 Hz).

The user selects the bandwidth of the accelerometer using Capacitor CX and Capacitor CY at the XOUT and YOUT pins. Bandwidths of 0.5 Hz to 2.5 kHz can be selected to suit the application.

The ADXL103 is available in a 5 mm × 5 mm × 2 mm, 8-terminal ceramic LCC package.

Applications:

Platform stabilization/leveling

Navigation

Alarms and motion detectors

High accuracy, 2-axis tilt sensing

Vibration monitoring and compensation

Abuse event detection

Features

High performance, single-axis accelerometer on a single IC chip

5 mm × 5 mm × 2 mm LCC package

1 mg resolution at 60 Hz

Low power: 700 μA at>

High zero g bias stability

High sensitivity accuracy

X and Y axes aligned to within 0.1° (typical)

Bandwith adjustment with a single capacitor

Single-supply operation

3500 g shock survival

RoHS-compliant

Compatible with Sn/Pb- and Pb-free solder processes

Application

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Navigation

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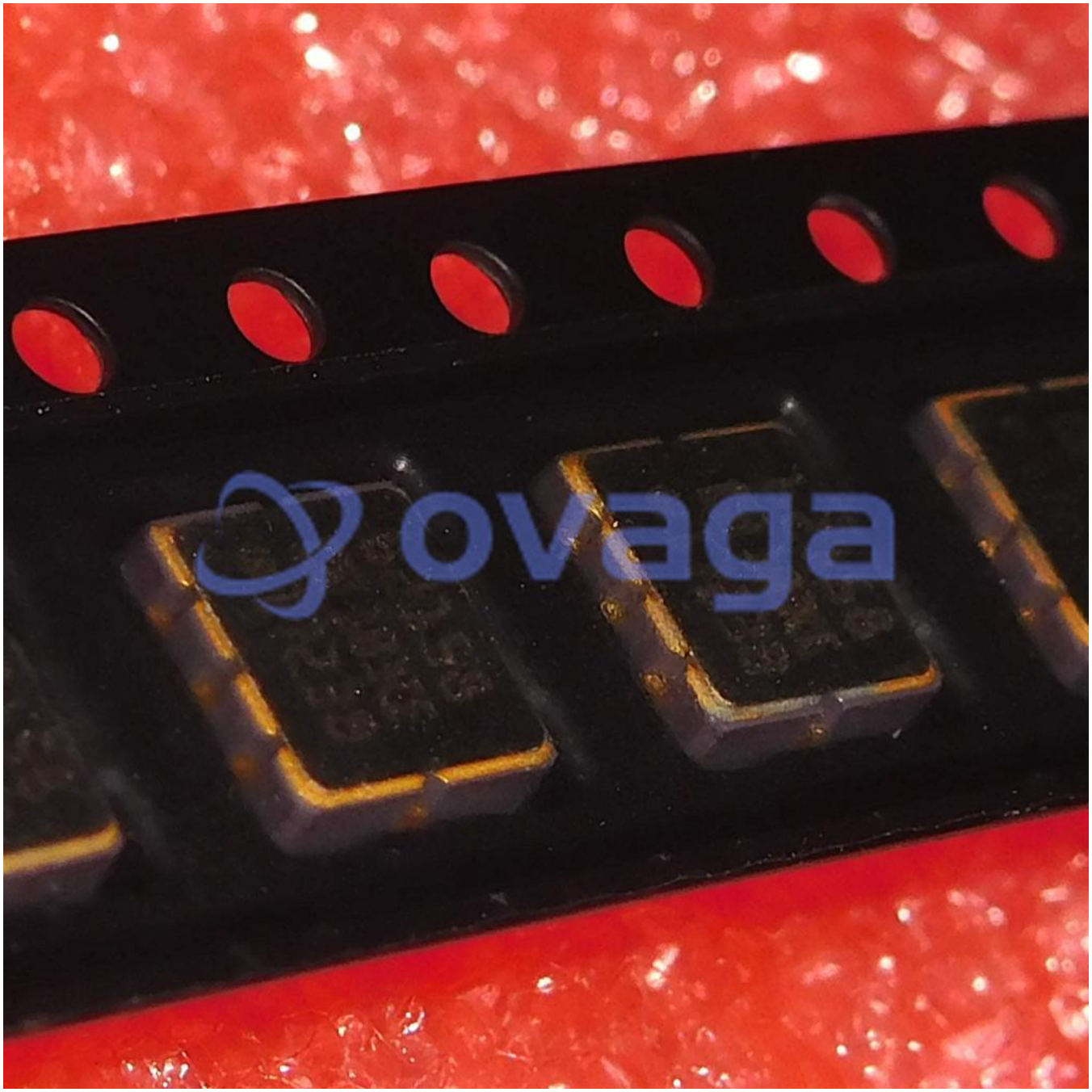
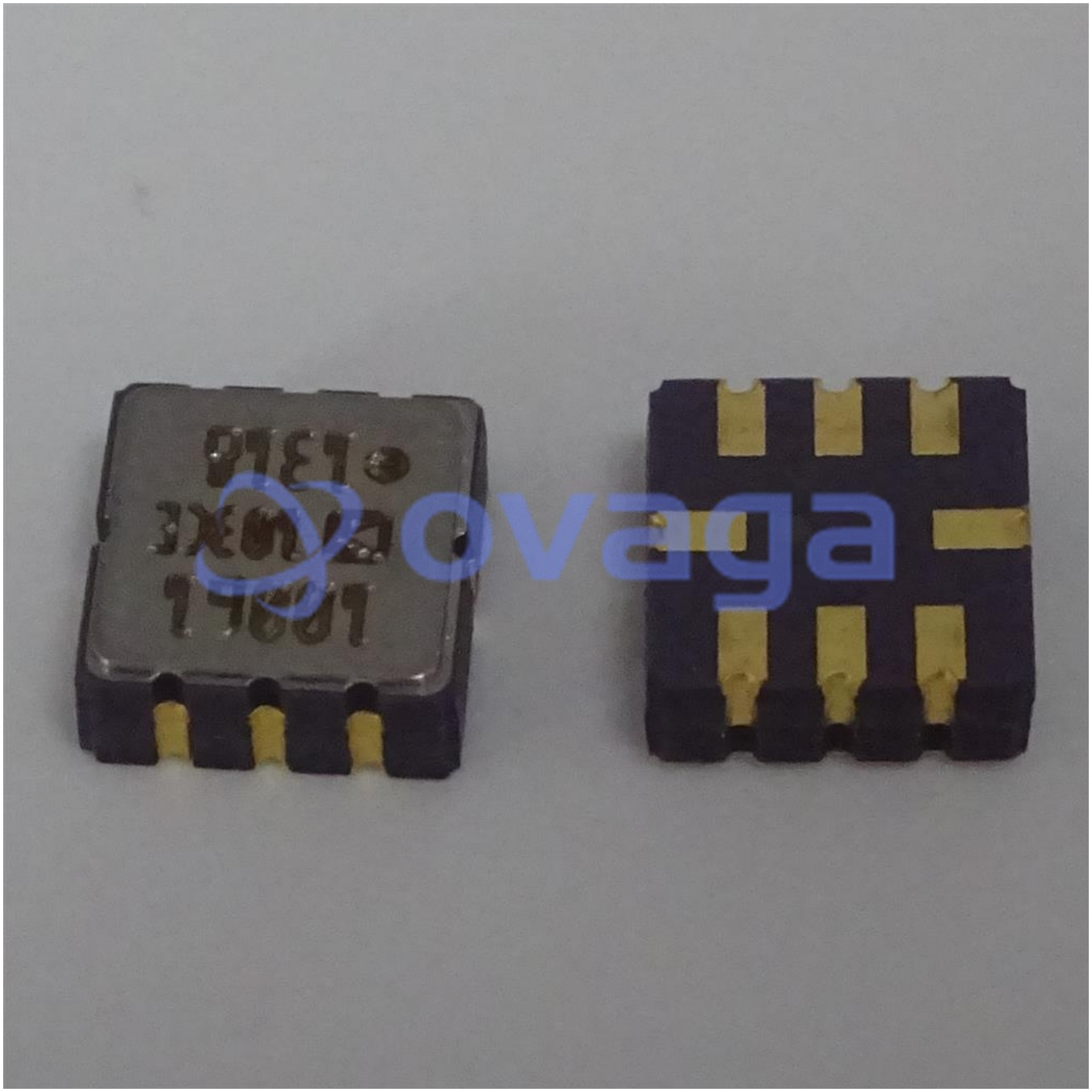
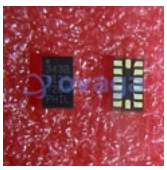




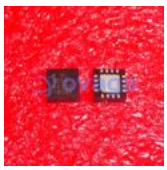
Related Products



[ADXL343BCCZ](#)

Analog Devices, Inc

LGA-14



[ADXL335BCPZ-RL7](#)

Analog Devices, Inc

LFCSP16

[ADIS16488BMLZ](#)

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MSM24

[ADXRS642BBGZ](#)

Analog Devices, Inc

CBGA-32

[ADXL357BEZ]

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LCC-14

[ADXL346ACCZ-RL7]

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LGA16

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16-LFCSP