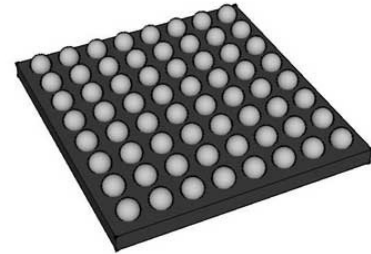


Gyroscopes Rollover Detection Gyro +/- 150

Manufacturers	Analog Devices, Inc
Package/Case	CBGA-32
Product Type	Motion & Position Sensors
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADXRS623BBGZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADXRS623 is a complete angular rate sensor (gyroscope) that uses the Analog Devices, Inc. surface-micromachining process to create a functionally complete and low cost angular rate sensor integrated with all required electronics on one chip. The manufacturing technique for this device is the same high volume BiMOS process used for high reliability automotive airbag accelerometers.

The ADXRS623 is an automotive grade gyroscope. Automotive grade gyroscopes have more extensive guaranteed min/max specifications due to automotive testing.

The output signal, RATEOUT (1B, 2A), is a voltage proportional to the angular rate about the axis that is normal to the top surface of the package. The output is ratiometric with respect to a provided reference supply. A single external resistor between SUMJ and RATEOUT can be used to lower the scale factor. An external capacitor sets the bandwidth. Other external capacitors are required for operation.

A temperature output is provided for compensation techniques. Two digital self-test inputs electromechanically excite the sensor to test proper operation of both the sensor and the signal conditioning circuits. The ADXRS623 is available in a 7 mm × 7 mm × 3 mm BGA chip scale package.

Features

Complete rate gyroscope on a single chip

Z-axis (yaw rate) response

High vibration rejection over wide frequency

2000 g powered shock survivability

Ratiometric to referenced supply

5 V single-supply operation

105°C operation

Self-test on digital command

Ultrasmall and light (<0.15 cc, <0.5 gram)

Temperature sensor output

RoHS compliant

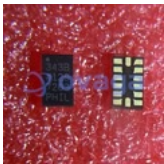
Application

Inertial measurement units

Platform stabilization

Robotics

Related Products



[ADXL343BCCZ](#)

Analog Devices, Inc
LGA-14



[ADXL103CE](#)

Analog Devices, Inc
CLCC-8



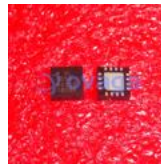
[ADXRS642BBGZ](#)

Analog Devices, Inc
CBGA-32



[ADXL346ACCZ-RL7](#)

Analog Devices, Inc
LGA16



[ADXL335BCPZ-RL7](#)

Analog Devices, Inc
LFCSP16



[ADIS16488BMLZ](#)

Analog Devices, Inc
MSM24



[ADXL357BEZ](#)

Analog Devices, Inc
LCC-14



[ADXL345BCCZ-RL7](#)

Analog Devices, Inc
LGA-14