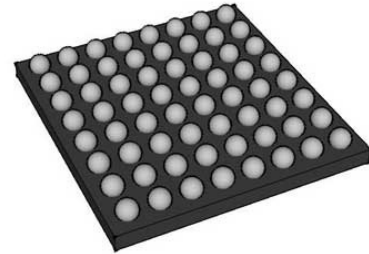


MEMS Single Axis  $\pm 300^\circ/\text{s}$  Automotive 32-Pin CBGA T/R

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



Images are for reference only

Please submit RFQ for ADXRS620BBGZ-RL or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADXRS620 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 ADXRS620 is an automotive grade gyroscope that has 100% pin, package, temperature, and function compatible to the available industrial grade ADXRS652 gyro. 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 angular rate about the axis normal to the top surface of the package. The output is ratiometric with respect to a provided reference supply. A single external resistor 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 ADXRS620 is available in a 7 mm  $\times$  7 mm  $\times$  3 mm BGA ceramic 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

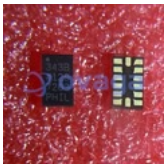
## Application

Vehicle chassis rollover sensing

Inertial measurement units

Platform stabilization

## Related Products



### [ADXL343BCCZ](#)

Analog Devices, Inc  
LGA-14



### [ADXL103CE](#)

Analog Devices, Inc  
CLCC-8



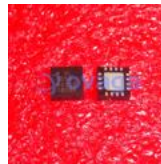
### [ADXRS642BBGZ](#)

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