

MEMS Gyroscope, Digital, Z, $\pm 400^\circ/\text{s}$, 3.15 V, 5.25 V, SOIC

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-16
Product Type	Motion & Position Sensors
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADXRS453BRGZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADXRS453 uses an internal, continuous self-test architecture. The integrity of the electromechanical system is checked by applying a high frequency electrostatic force to the sense structure to generate a rate signal that can be differentiated from the base-band rate data and internally analyzed.

The ADXRS453 is capable of sensing an angular rate of up to $\pm 300^\circ/\text{sec}$. Angular rate data is presented as a 16-bit word that is part of a 32-bit SPI message.

The ADXRS453 is available in a 16-lead plastic cavity SOIC (SOIC_CAV) and an SMT-compatible vertical mount package (LCC_V), and is capable of operating across a wide voltage range (3.3 V to 5 V).

Features

Complete rate gyroscope on a single chip

Ultrahigh vibration rejection: 0.01°/sec/g

Excellent 16°/hour null bias stability

Internal temperature compensation

2000 g powered shock survivability

SPI Digital output with 16-bit data word

Low noise and low power

3.3 V to 5 V operation

Ultra small, light, and RoHS compliant

Two package options:-- Low cost SOIC_CAV package for yaw rate (z-axis) response-- Innovative ceramic vertical mount package (LCC_V), which can be oriented for pitch, roll, or yaw response

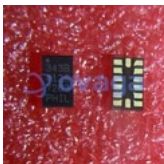
Application

Rotation sensing in high vibration environments

Rotation sensing for industrial and instrumentation applications

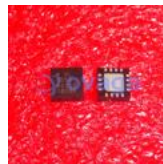
High performance platform stabilization

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