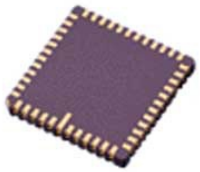
ADXRS453BEYZ

Data Sheet

MEMS Gyroscope, Digital, Pitch, Roll, ± 300°/s, 3 V, 5.25 V, LCC

Manufacturers	Analog Devices, Inc
Package/Case	LCC14
Product Type	Motion & Position Sensors
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADXRS453BEYZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The ADXRS453 uses an internal, continuous self-test architec-ture. 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 ±300°/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

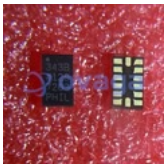
Application

Rotation sensing in high vibration environments

Rotation sensing for industrial and instrumentation applications

High performance platform stabilization

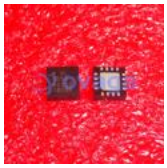
Related Products



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