MEMS Gyroscopes Analog Devices ADIS16136 Precision Angular Rate Sensor - Technology Analysis

Description:

MEMS gyroscopes for tactical grade applications made a lot of progress in the past few years in term of reliability. They are now accepted in high-reliability environments, and are even starting to replace FOGs and other technologies in tactical applications.

The ADIS16136 is a ±450°/sec digital gyroscope sensing system. It uses a low-cost MEMS technology based on Analog Devices iMEMS® process and quad-core design allowing excellent vibration immunity.

In order to achieve a cost effective tactical grade module, Analog Devices uses a very smart design integrating multiple in-house discretes gyro and integrated circuits. This design allows ADI to reuse components from its portfolio and thus to optimize manufacturing cost.

The ADIS16136 is a 36 mm × 44 mm × 14 mm module targeted for applications such as platform control, navigation, robotics, and medical instrumentation.

The Technology Analysis report provides information on Physical Analysis & Manufacturing Process Flow. A full reverse costing analysis is also available, for more information please click on the link below.

Contents:

1. Glossary
2. Overview/Introduction
3. Company Profile
4. Physical Analysis
   - Module
     - Views, Dimensions & Pin-out
     - Opening
     - Electronic Board
     - Components Markings
     - Components Identification
     - MEMS Gyro
     - View, Dimensions & Marking
     - MEMS Cap Removed
     - MEMS Sensing Area
     - MEMS Gyro Principle
5. Manufacturing Process Flow
   - Global Overview
   - MEMS Process Flow & Wafer Fab Unit
   - Module Assembly Process Flow

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