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IDG-1004 Dual-Axis Gyroscope Evaluation Board Specification

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1. Revision History

Revision Date	Revision	Description
June 29, 2007	1.0	Initial Release
September 10, 2007	2.0	Company address and evaluation board picture updated

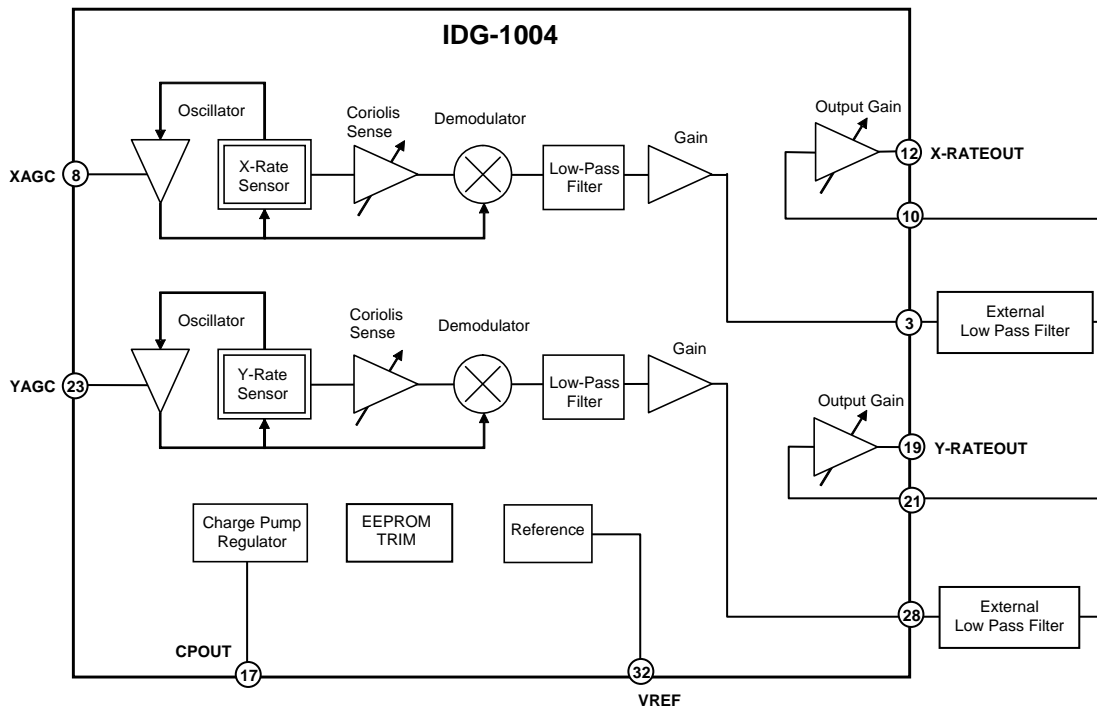
2. Purpose

This document provides the specification for the IDG-1004 Dual-Axis Gyroscope Evaluation Board configured per the table below.

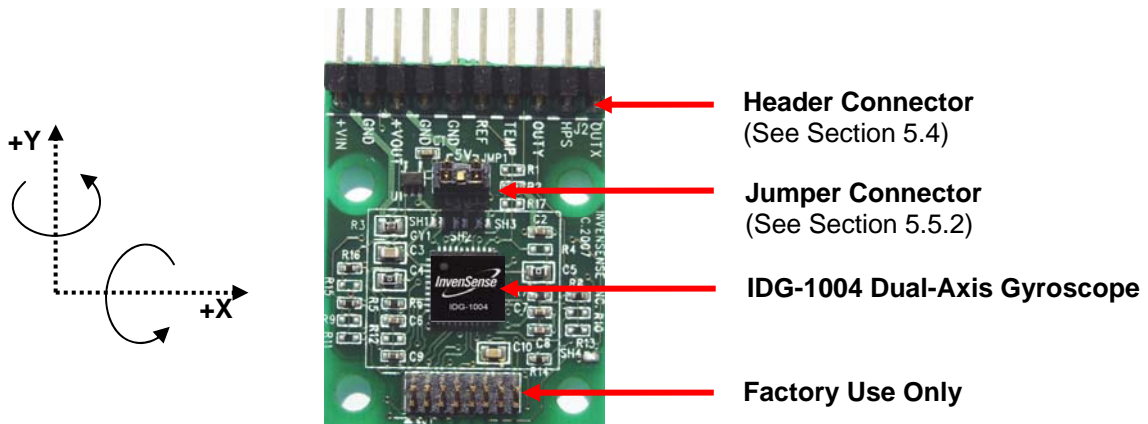
3. Evaluation Board Configuration

Sensitivity	Internal LPF	External LPF
4 mV/deg/sec	140Hz	2kHz

4. Functional Block Diagram



5.3 Evaluation Board Configuration



5.4 Signal Description

Pin	Signal	Description
1	OutX	Output of the X-axis gyro
2	HPS	Do not use
3	OutY	Output of the Y-axis gyro
4	TEMP	Do not use
5	V _{REF}	1.2V reference voltage
6	GND	Ground
7	GND	Ground
8	+Vout	Return of the V _{DD} of the gyroscope chip
9	GND	Ground
10	+V _{IN}	Input power supply for the evaluation board (+5V / +3V)

5.5 Special Instructions

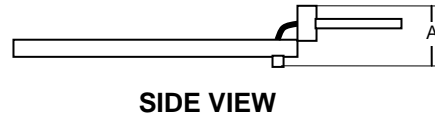
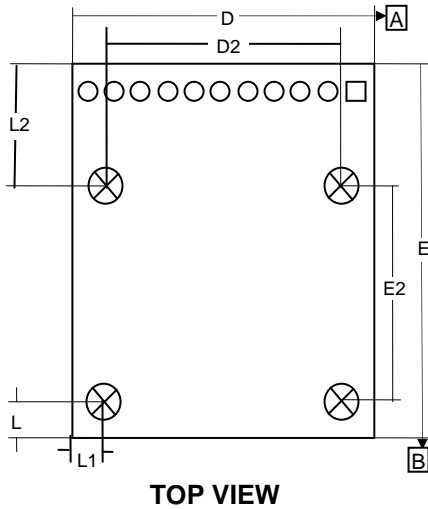
5.5.1 Electrostatic Discharge Sensitivity

The IDG-1004 gyro can be permanently damaged by an electrostatic discharge. ESD precautions for handling and storage are recommended.

5.5.2 Jumper Connector

The IDG-1004 evaluation board is equipped with a jumper connector to control the voltage supplied to the gyro. When the jumper is located in the “up” or standard position as shown in the picture above, the 5 Volts being supplied to the gyro is regulated to 3 Volts using an on-board regulator. When the jumper is located in the “down” position, the on-board regulator is bypassed and the gyro is being directly supplied with the voltage on Pin 10 (+V_{IN}).

6. Dimensional Drawing



Dimensions (mm)		
A	5.0	±1.0
D	25.7	±0.1
E	31.8	±0.1
L	3.1	±0.1
L1	3.1	±0.1
L2	10.2	±0.1
D2	19.5	±0.1
E2	18.5	±0.1