

# RLG600 Ring laser gyro



**FOGPhotonics,inc**

one Idealphotonics company



## Features

- Excellent vibration and shock performance
- Suitable to harsh dynamic conditions
- MTBF100000 Hours
- ITAR Free
- Low power consumption
- Low working power supply

## Products Guide

**FOG Components**

**IMU Systems**

**FOG Devices**

**RLG Devices**

**FOG Instruments**

## Application

- EO/IR,FLIR stabilization
- platform stabilization
- Tactical missile guidance
- Flight controls
- Downhole measuring
- Gyro compassing

**2016 NEW VERSION**

## Description

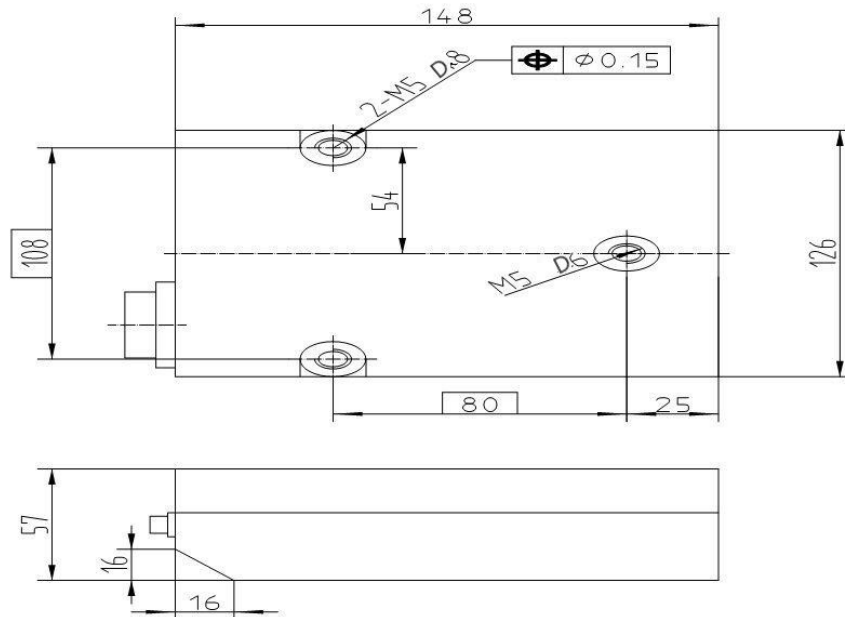


The RLG600 ring laser gyro (RLG) represent the smallest-volume, lightest-weight, and lowest-cost RLG systems. These Gyros are designed to provide the functions required for inertial guidance, aided or midcourse navigation, and vehicle stabilization and control to a wide variety of tactical missiles,standoff weapons, unmanned aerial vehicles, torpedoes, and manned rotorcraft. The RLG600 achieve their low cost as a result of several significant development thrusts must be utilized. The RLG600 is a true design-to-cost device with producibility and the cost of parts, materials, assembly labor, and manufacturing automation being the dominant design drivers.Additionally, the RLG600 use a commonality design approach. This philosophy has made it possible to develop several generic hardware elements which need only be repackaged to provide an inertial system in the form factor required for specific programs.

## Specification

Parameter	Units	RLG600
Angular Random Walk (noise)*	°/hr	0.002
Bias stability	°/hr	≤0.007(10s,1σ)
Bias Repeatability (day to day)	°/hr(1σ)	0.01
Scale factor repeatability	ppm(1σ)	≤10
Scale Factor Non-Linearity (max rate, 25°C)	ppm,(1σ)	≤5
Dynamic Range (Angular Rate)	°/sec	±600
Band width	HZ	>100
Starting time	S	<5
Dimension	mm	148x126X57
Weight	g	2000
Operation temperature	°C	-45-+71
Storage temperature	°C	-55-+85
Shock	g	80 g, 11 msec, sawtooth
Vibrations	g	7g(20-2000HZ)
Interface		RS422 Or OEM
Power supply	V	±5V, ± 15V
MTBF	Hours	100000
Baud Rate	Kbps	Typ 11528kbps (User selectable 9.6 Kbps to 921.6
Data Rate	Hz	Typ400Hz(User Selectable 1 to 1000 Hz)

## Mechanical



## Electrical connector joint definition

Gyro output mode	Type 422 (two-way)	
J30j-37ZKP	Connection between the motherboard and the acquisition line	
	16/34	GY+5V/ +5V
	15/33	GYGND(+5V GND)
	5	GYGND(Synchronous signal GND)
	19/37	GY-5V/ -5V
	18/36	GYGND(+15V GND)
	17/35	GY+15V/ +15V
	6	GYSYN ( 1KHZ Synchronous signal)
	4	422 gyro signal receive +/RX +
	3	422 gyro signal receive- /RX -
	1	422gyro signal transmit+/TX +
2	422gyro signal transmit-/ TX -	

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