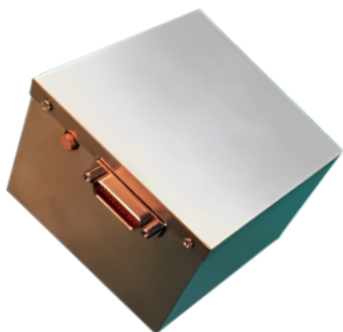


## Type 68 laser gyroscope

SKU :RLG68

### OVERVIEW



The Model 68 Laser Gyroscope is an inertial device designed to meet the high precision requirements of customers. Based on Sagnac effect, it is assembled by low expansion coefficient microcrystalline optical glass and other materials. It has the advantages of large dynamic range, instant start, high precision, high shock and vibration resistance, and high reliability, and is an ideal component for medium and high precision shortcut inertial navigation and guidance systems.

### PRODUCT FEATURES

- Medium to high precision.
- All-in-one design.
- Built-in temperature sensor, which can be used to compensate the gyro parameters in real time.
- With 25-pin electrical connector, the gyroscope outputs two TTL level digital signals, and the required angular displacement signal can be obtained by connecting these two signals to the phase identification, demodulation and counting circuits.
- Uses +15V, +5V and -5V DC power supplies

### APPLICATION AREAS

- Medium and high precision attitude measurement system
- Medium high-precision stabilization platform
- Medium high-precision positioning and orientation system
- Medium-high precision land vehicle navigation system

### PERFORMANCE INDICATORS

	Class I	Class 2
Zero Bias Stability	$\leq 0.005^{\circ}/h$	$\leq 0.01^{\circ}/h$
Zero bias repeatability	$\leq 0.005^{\circ}/h$	$\leq 0.01^{\circ}/h$
Random wander	$\leq 0.0015^{\circ}/\sqrt{h}$	$\leq 0.002^{\circ}/\sqrt{h}$
Scale factor	$\leq 5ppm(1\sigma)$	

Magnetic field sensitivity	$\leq 0.003 \text{ }^{\circ}/\text{h} / \text{Gs}$
Dynamic range	Greater than $\pm 400^{\circ}/\text{S}$
Start-up time	$\leq 10$ seconds
MTBF	Greater than 20,000 hours
Operating Temperature	$-40^{\circ}\text{C} \sim +65^{\circ}\text{C}$
Dimension	$(102 \pm 2) \times (93 \pm 2) \times (53 \pm 2) \text{ (mm)}$
Weight	$900 \pm 100 \text{ (g)}$
Power consumption	Less than 5W
Shock:	75g, 6ms (half sine)
Vibration:	$\leq 9.5\text{g}$

## GYROSCOPE MOUNTING DIMENSIONS

