

RLGM-1 Ring Laser Gyroscope Mirrors



FOGPhotonics,inc

one Idealphotonics company



Features

Very Low absorption
outstanding spectral performance
Small volume, light weight
ITAR Free
Different Quality levels: Aerospace,military
Low scattering loss

Products Guide

FOG Components

IMU Systems

FOG Devices

RLG Devices

FOG Instruments

Application

- Ring laser gyro
- Visible light detection
- Tactical missile guidance
- Flight controls
- RLG IMU systems
- Gyro compassing

2016 NEW VERSION

Description



RLG (Ring Laser Gyroscope) require mirrors and outcoupling coatings with very low absorption and scattering loss, high resistance to plasma environment and long durability. FOGphotonics provides such coatings done by Ion Beam Sputtering (IBS) with outstanding spectral performance and very low defect levels according to customer's specifications. IBS coatings find various applications where low loss and accurate performance is needed such as high finesse etalons.

Specification

| Type | Size | Diagonal | Dia.-Thick Ratio | Surface Quality S/D | FlatnessPV@632.8nm | Roughness RMS | Parallelism |
|----------|--------|-------------|---------------------|------------------------|--------------------|------------------|-------------|
| Square | Small | 10-25mm | 10:1 | 5-1 | 0.05λ | ≤0.1nm | 10" |
| | Medium | 25-100mm | 10:1 | 10-5 | 0.05λ | ≤0.1nm | 10" |
| | Large | 100-295mm | 10:1 | 20-10 | 0.05λ/φ100 | ≤0.1nm | 3" |
| Type | Size | Diameter | Dia.-Thick Ratio | Surface Quality S/D | FlatnessPV@632.8nm | Roughness RMS | Parallelism |
| Circular | Small | φ10-φ25mm | 10:1 | 5-1 | 0.05λ | ≤0.1nm | 10" |
| | Medium | φ25-φ100mm | 10:1 | 10-5 | 0.05λ | ≤0.1nm | 10" |
| | Large | φ100-φ295mm | 10:1 | 20-10 | 0.05λ/φ100 | ≤0.1nm | 3" |

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