

Introduction

CSRAYZER's **F120 FOG Fiber Coil** is designed for closed-loop $\phi 120$ Fiber Optic Gyroscope, in high precision, with good bias stability and scale factor.

With strong R&D capability and our own designed high performance Fiber Coil Winding Machine ZKRZ-RHJ4.0, we provide the specific design of the winding frame, customized Fiber Coil, and also the fiber coil winding process service, according to customer's requirements.



Application

- ◆ Inertial Navigation System High precision requirement
- ◆ Combat Aircraft, UAV, Drones, Missile and Land Vehicle
- ◆ Air Freighter
- ◆ Civil Aviation

Specification

| Fiber Coil Index | Unit | Value |
|---|-------|---------------|
| Fiber Inner Diameter | mm | 97±0.1 |
| Height(Exclude Boss) | mm | 12±0.1 |
| Outer Diameter | mm | ≤112 |
| Winding layers(Exclude Backup Layer) | Layer | 52 |
| Number of Turns | T | 88±1 |
| Winding Length | M | 1530±10 |
| Fiber Type | / | PM1550/80/135 |
| Operating Wavelength | nm | 1550 |
| Polarization CrossTalk @ Room Temperature | dB | ≤-22 |
| Polarization CrossTalk Variation @ Full Temperature | dB | ≤3 |
| Insertion Loss | dB | ≤ 0.6 |
| Insertion Loss Variation @Full Temp. | dB | ≤ 0.1 |
| Working Temperature | °C | -40°C~65°C |

*All above fiber coils are available to be customized.

* Specifications are subject to change without notice.