

Introduction

Rayzer's **F120 Fiber Gyro 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.