

## Introduction

Rayzer's **F50 Fiber Gyro Coil** is designed for small closed-loop  $\phi 50$  Fiber Optic Gyroscope, with low and medium precision suitable for the customer's special requirement small size fiber coil and small optical devices. It is good for the application of small space Fiber Optic Gyroscope design.

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



## Application

- ◆ Various Type of Missile Guider
- ◆ Aircraft and vehicle Platform Stability
- ◆ Small Tactical Robot

## Specification

Fiber Coil Index	Unit	Value
Fiber Inner Diameter	mm	24±0.1
Height(Exclude Boss)	mm	11.6±0.1
Outer Diameter	mm	≤36
Winding layers(Exclude Backup Layer)	Layer	36
Number of Turns	T	85±1
Winding Length	M	275±5
Fiber Type	/	PM1310/80/135
Operating Wavelength	nm	1310
Polarization CrossTalk @ Room Temperature	dB	≤-22
Polarization CrossTalk Variation @ Full Temperature	dB	≤4
Insertion Loss	dB	≤ 0.25
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.