

## 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 Freight
- ◆ Civil Aviation

## Specification

Fiber Coil Index	Unit	Value
Fiber Inner Diameter	mm	70 $\pm$ 0.1
Height(Exclude Boss)	mm	26 $\pm$ 0.1
Outer Diameter	mm	$\leq$ 83
Winding layers(Exclude Backup Layer)	Layer	48
Number of Turns	T	190 $\pm$ 1
Winding Length	M	2178 $\pm$ 10
Fiber Type	/	PM1550/80/135
Operating Wavelength	nm	1550
Polarization CrossTalk @ Room Temperature	dB	$\leq$ -22
Polarization CrossTalk Variation @ Full Temperature	dB	$\leq$ 3
Insertion Loss	dB	$\leq$ 1.3
Insertion Loss Variation @Full Temp.	dB	$\leq$ 0.1
Working Temperature	$^{\circ}$ C	-40 $^{\circ}$ C~65 $^{\circ}$ C

\*All above fiber coils are available to be customized.

\* Specifications are subject to change without notice.