

Introduction

Fibermart's **F98 FOG Fiber Coil** is designed for closed-loop $\phi 98$ 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, 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
Coil Inner Diameter	mm	77±0.1
Coil Height	mm	11.7±0.1
Coil Outer Diameter	mm	≤90
Winding layers	Layer	48
Number of Turns	T	84±1
Adhesive	/	Yes
Winding Length	M	1050±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	-45°C~70°C

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

*** Specifications are subject to change without notice.**