Features

- High PER
- Low insertion loss
- Small foot print
- Customizable standalone or framed coils
- Stable performance over -40℃ to +80℃
- Compliant with MIL-STD-810

Applications

- Fiber Optic Gyro
- Vehicle Positioning and Navigation
- Satellite Attitude Control
- Aircraft and Ship Attitude System

Description

GIP Technology FOG Fiber Coil (AER-MFCO-PM-00-S) provides high-quality fiber coils and technical services for fiber optic gyroscopes. Our stringent process controls and comprehensive coil testing ensure that each fiber coil exhibits excellent performance parameters and temperature stability. As a result, fiber optic gyroscopes produced by us demonstrate outstanding scale factors and bias stability across the entire operating temperature range.

GIP
Brightening Your Solutions

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Specifications

Optical Information		Unit	Description
Operating wavelength		nm	C-band
Fiber type			Polarization maintaining optical fiber
Outer diameter of fiber			135μm,165μm or Customized
Coil type			Frameless
Winding patterns			Monopole, Quadrupole, Hexadecapole or Customized
Fiber length*1		km	1.5
Coil inner diameter	Min.	mm	35
Layer number	Max.	layers	100
Adhesive			UV Glue
Polarization extinction ratio of coil*2	Min.	dB	20
Pigtail length on each side	Typ.	M	3
Environmental Information			
Operating ambient temperature		°C	-40 ~ +80
Storage temperature		°C	-50 ~ +90
Relative humidity (non-condense)		%	5 ~ 85

*1. Longer fiber length and winding pattern can be customized.

*2. Measured at 1550nm, 25℃, 270m