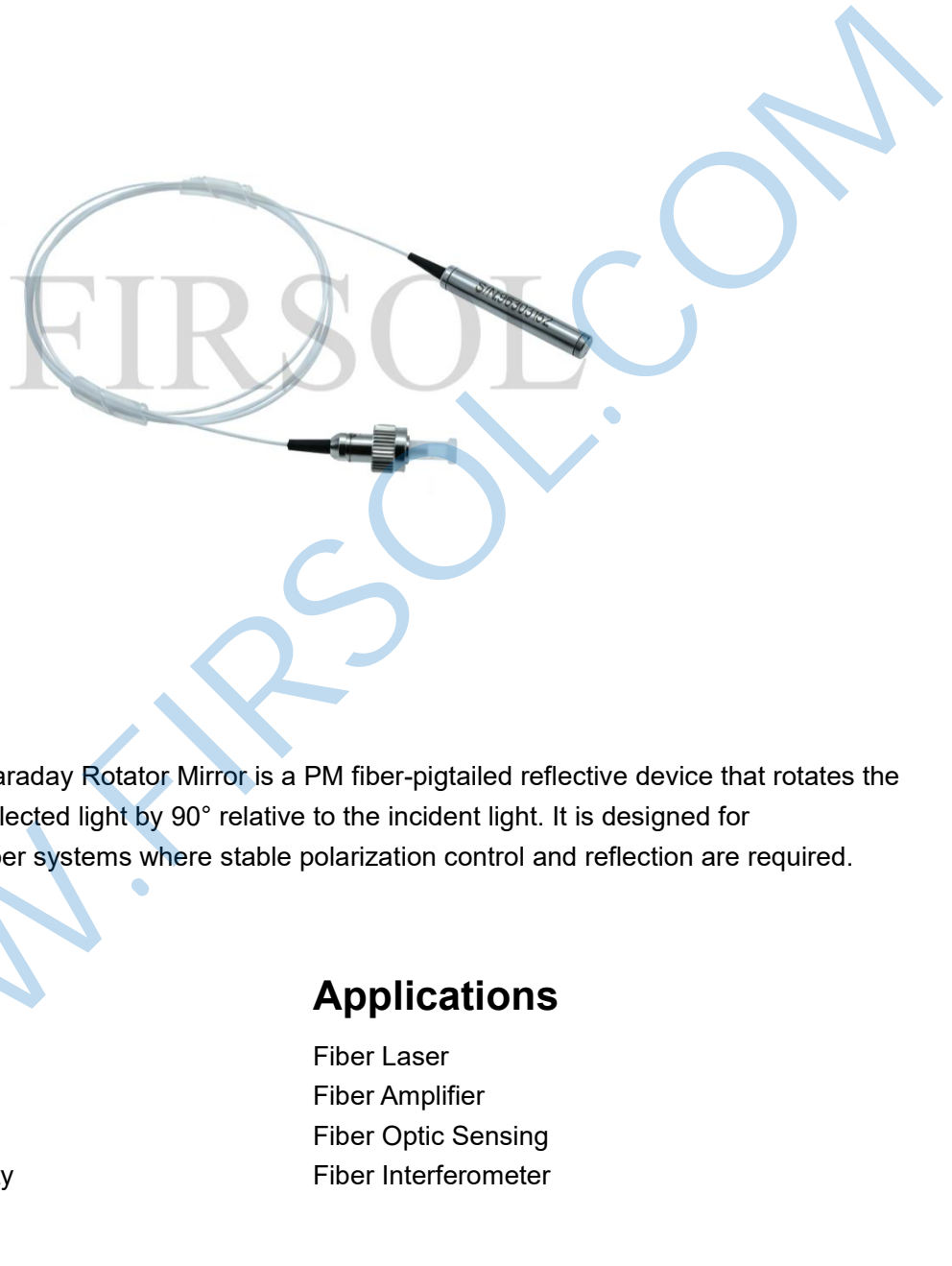


Polarization Maintaining Faraday Rotator Mirror



Description

Polarization Maintaining Faraday Rotator Mirror is a PM fiber-pigtailed reflective device that rotates the polarization state of the reflected light by 90° relative to the incident light. It is designed for polarization-maintaining fiber systems where stable polarization control and reflection are required.

Features

- Low Insertion Loss
- High Extinction Ratio
- Compact Structure
- High Stability and Reliability

Applications

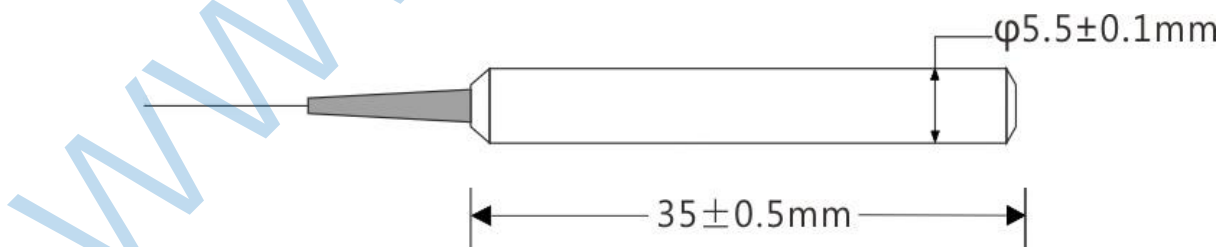
- Fiber Laser
- Fiber Amplifier
- Fiber Optic Sensing
- Fiber Interferometer

Specifications

Parameter	Unit	Value			
Center Wavelength	nm	1064	1310	1480/1550	1950/2000/2050
Operating Wavelength Range	nm	±5	±30		±30
Insertion Loss (Max.)	dB	3.0	0.6		0.8
Faraday Rotation Angle (Single Pass)	°	45			
Rotation Angle Tolerance	°	±3	±1		±2
Extinction Ratio (Min.)	dB	20			
Max Optical Power (CW)	mW	150	500		300
Fiber Type	-	PM980	PM1300	PM1550	PM1950
Package Dimensions	mm	Φ5.5 x L35			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to +85			

Notes: Tested at 25 °C. Data exclude connectors. Adding connectors will increase insertion loss by approximately 0.3 dB, reduce return loss by 5 dB, and decrease extinction ratio by 2 dB. The fiber slow axis is aligned to the key by default.

Product Dimensions



Ordering Information

<input type="checkbox"/> nm	<input type="checkbox"/> mW	<input type="checkbox"/>	<input type="checkbox"/> m	<input type="checkbox"/> μm	<input type="checkbox"/>
Center Wavelength	Max Optical Power (CW)	Fiber Type	Pigtail Length	Pigtail Diameter	Connector
1064nm	150mW	PM980	0.5m	250μm Bare Fiber	None
1310nm	300mW	PM1300	1.0m	900μm Loose Tube	LC/UPC
1480nm	500mW	PM1550	1.5m		LC/APC
1550nm		PM1950	2.0m		SC/UPC
1950nm					SC/APC
2000nm					FC/UPC
2050nm					FC/APC
					ST/UPC
					ST/APC

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