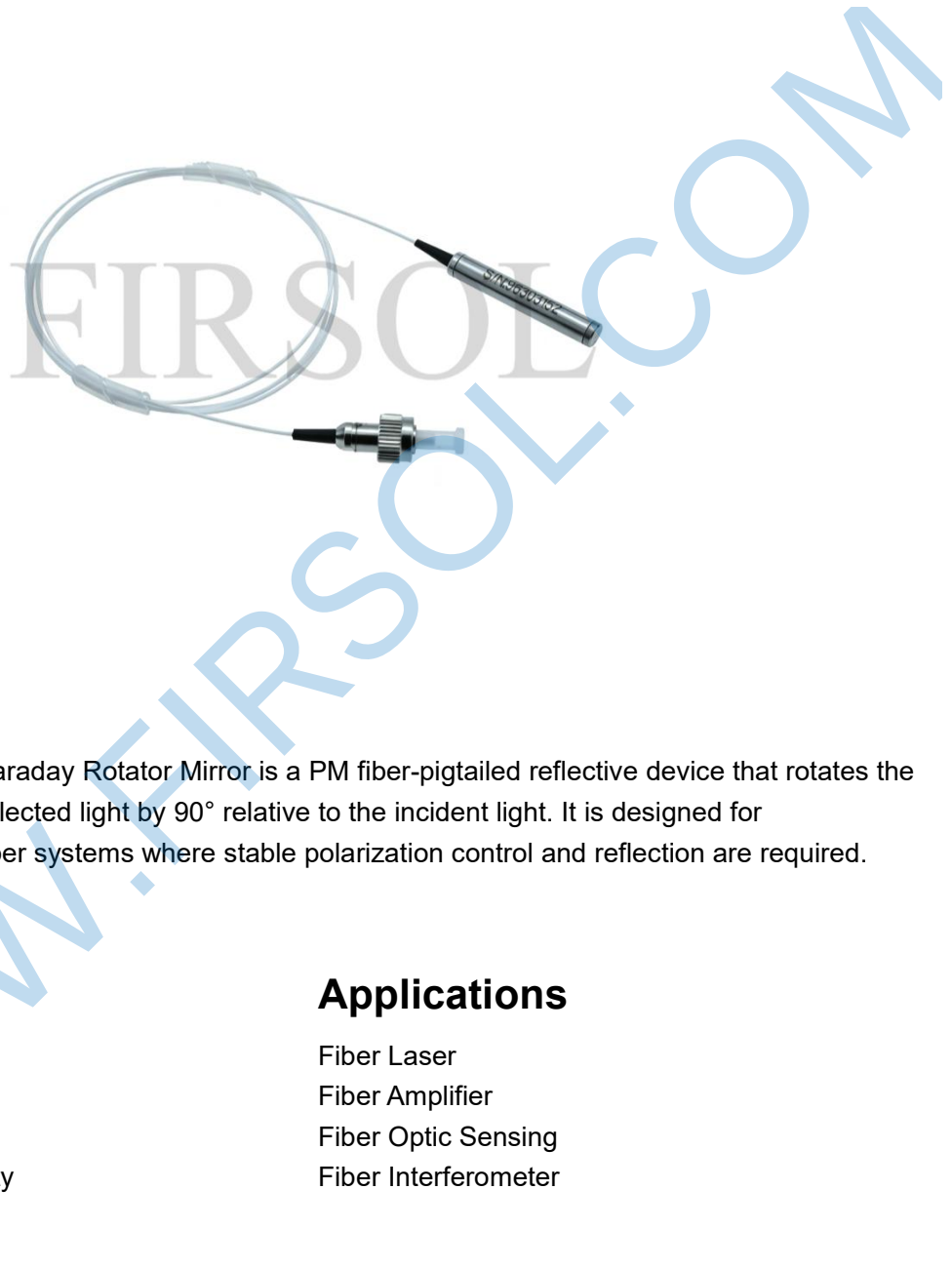


Polarization Maintaining Faraday Rotator Mirror



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

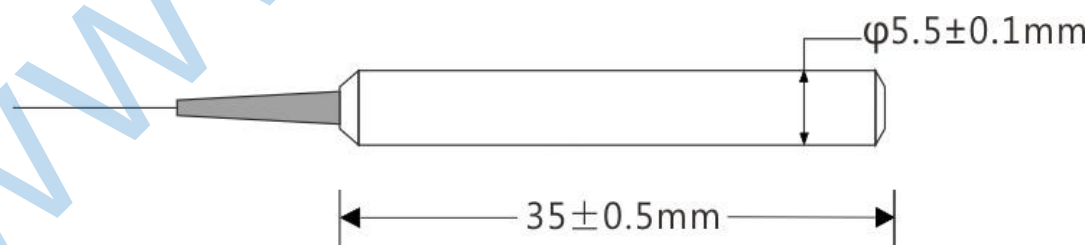
- Fiber Laser
- Fiber Amplifier
- Fiber Optic Sensing
- Fiber Interferometer

Specifications

Parameter	Unit	Value			
Center Wavelength	nm	1064	1310	1480/1550	1950/2000/2050
Operating Wavelength Range	nm	±5	±30		±30
Insertion Loss	dB	≤3.0	≤0.6		≤0.8
Faraday Rotation Angle (Single Pass)	°	45			
Rotation Angle Tolerance	°	±3	±1		±2
Extinction Ratio	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

					
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