

Single Mode Faraday Rotator Mirror



Description

Fiber Faraday rotator mirrors can reflect light relative to the incident light polarization state (SOP) in orthogonal polarization directions of 90° . They feature low insertion loss, high return loss, high signal-to-noise ratio, and good environmental stability and reliability. They can minimize changes in polarization state caused by thermal and mechanical disturbances in the fiber, making them excellent for improving the performance of fiber amplifiers, fiber lasers, and fiber interferometers.

Features

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

Applications

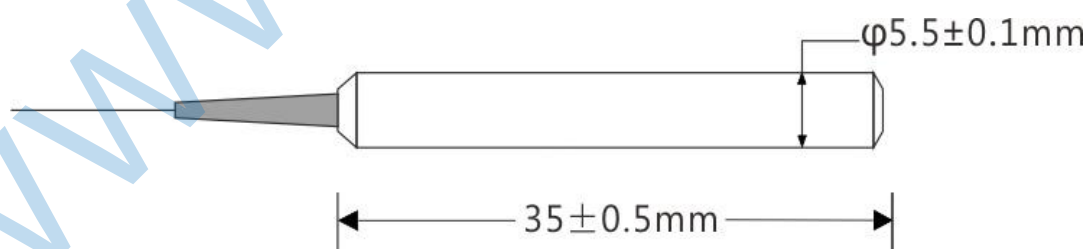
- Fiber Laser
- Fiber Amplifier
- Fiber Optic Sensing
- Fiber Interferometer

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	≤0.9
Faraday Rotation Angle (Single Pass)	°	45		
Rotation Angle Tolerance	°	±3	±1	±2
Polarization Dependent Loss	dB	≤0.1		
Max Optical Power (CW)	mW	150	500	300
Fiber Type	-	Hi1060	SMF-28e	SM1950
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.

Product Dimensions



Ordering Information

					
Center Wavelength	Max Optical Power (CW)	Fiber Type	Pigtail Length	Pigtail Diameter	Connector
1064nm	150mW	Hi1060	0.5m	250μm Bare Fiber	None
1310nm	300mW	SMF-28e	1.0m	900μm Loose Tube	LC/UPC
1480nm	500mW	SM1950	1.5m		LC/APC
1550nm			2.0m		SC/UPC
1950nm					SC/APC
2000nm					FC/UPC
2050nm					FC/APC
					ST/UPC
					ST/APC