



Faraday Mirror (FM Series)

Rev 11B

Description

The Faraday Mirror is a passive device that provides 90 degree rotation regarding the polarization state of the input light. The FM offers excellent performance including the lowest possible insertion loss and environmental stability. It is used in EDFAs, fiber lasers and fiber instruments to minimize the polarization effect.

Key Features

- Low Insertion Loss
- Low Polarization Dependent Loss

Applications

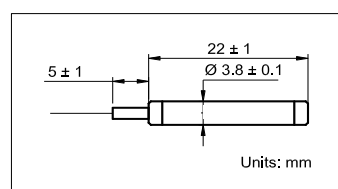
- Fiber Laser
- Fiber Sensing

Specifications

Parameter	Unit	Value		
Center Wavelength	nm	1920	2000	2070
Operating Wavelength Range	nm		± 15	
Typ. Insertion Loss	dB	0.6	0.9	1.2
Max. Insertion Loss	dB	0.9	1.2	1.5
Faraday Rotation Angle (Single Pass)	degree		45	
Max. Rotation Angle Tolerance, λ_c , 23 °C	degree		± 2	
Max. Polarization Dependent Loss	dB		0.1	
Fiber Type	-	SMF-28 Fiber or SM1950 Fiber		
Max. Optical Power	mW		300	
Max. Tensile Load	N		5	
Operating Temperature	°C		- 5 to + 70	
Storage Temperature	°C		- 40 to + 85	

¹IL is 0.5 dB higher and RL is 5 dB lower for each of connector added.

Package Dimensions



Ordering Information

FM-①①①①-②-③-④-⑤

①①①①: Wavelength	②: Fiber Type	③: Connector Type	④: Fiber Jacket	⑤: Fiber Length
1920 - 1920 nm	1 - SMF-28 Fiber	1 - FC/UPC	B - 250 μ m Bare Fiber	1 - 1.0 m
2000 - 2000 nm	2 - SM1950 Fiber	2 - FC/APC	L - 900 μ m Loose Tube	S - Specify
2070 - 2070 nm	S - Specify	3 - SC/UPC	S - Specify	
SSSS - Specify		4 - SC/APC		
		N - None		
		S - Specify		