



Faraday Mirror (FM Series)

Rev 11

Description

The Faraday Mirror is a passive device that provides 90 degree rotation regarding to 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

Applications

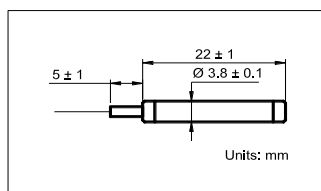
- Fiber Laser
- Fiber Sensing

Specifications

Parameter	Unit	Value
Center Wavelength	nm	1310, 1480 or 1550
Operating Wavelength Range	nm	± 15
Typ. Insertion Loss	dB	0.4
Max. Insertion Loss	dB	0.6
Faraday Rotation Angle (Single Pass)	degree	45
Max. Rotation Angle Tolerance, λ_c , 23 °C	degree	± 1
Max. Polarization Dependent Loss	dB	0.1
Fiber Type	-	SMF-28 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-①①-②-③-④

①①: Wavelength

31 - 1310 nm

48 - 1480 nm

55 - 1550 nm

SS - Specify

②: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

③: Fiber Jacket

B - 250 μ m Bare FiberL - 900 μ m Loose Tube

S - Specify

④: Fiber Length

1 - 1.0 m

S - Specify