



Polarization Maintaining Faraday Mirror (PMFM Series)

Rev 11B

Description

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

Key Features

- Low Insertion Loss

Applications

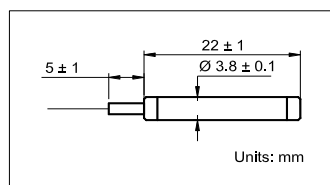
- Fiber Laser
- Fiber Sensing

Specifications

Parameter	Unit	Value
Center Wavelength	nm	1920, 2000, 2070
Operating Wavelength Range	nm	± 15
Typ. Insertion Loss	dB	0.6
Max. Insertion Loss	dB	0.9
Faraday Rotation Angle (Single Pass)	degree	45
Max. Rotation Angle Tolerance, λ_c , 23 °C	degree	± 2
Min. Extinction Ratio, 23 °C	dB	20
Fiber Type	-	PM 1550 Panda Fiber or PM1950 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 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMFM-①①①①-②-③-④-⑤

①①①①: Wavelength

1920 - 1920 nm

2000 - 2000 nm

2070 - 2070 nm

S - Specify

⑤: Fiber Length

Q - 0.75 m

S - Specify

②: Fiber Type

1 - PM 1550 Panda Fiber

2 - PM1950 Fiber

S - Specify

③: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

④: Fiber Jacket

B - 250 μ m Bare Fiber

L - 900 μ m Loose Tube

S - Specify