



Polarization Maintaining Faraday Mirror (PMFM Series)

Rev 11C

Description

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

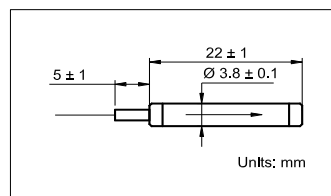
- Fiber Lasers
- Fiber Sensing

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1310, 1480 or 1550
Operating Wavelength Range	nm	$\lambda_c \pm 15$
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
Min. Extinction Ratio, 23 °C	dB	20
Fiber Type	-	PM Panda Fiber
Max. Optical Power (Continuous Wave)	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-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 Fiber

L - 900 μ m Loose Tube

S - Specify

④: Fiber Length

Q - 0.75 m

S - Specify