



1950nm PM Faraday Mirror

The PM Faraday Mirror is a passive device that provides 45- or 90-degree rotation regarding to the polarization state of the input light. It is a fiber optic polarization rotation mirror designed for fiber optic networks and measurement applications. The device can help to eliminate polarization sensitivity of an optical fiber system. Applications include eliminating polarization induced fluctuations in fiber interferometers, Brillouin amplifier systems, fiber laser systems, and fiber optic antenna remoting systems. Our Faraday Mirror is optical path epoxy free and thus offers low insertion loss and high temperature stability.

Key Features

- Low Insertion Loss
- High Return loss
- Compact Size
- Epoxy Free Optical Path

Applications

- Fiber Amplifier
- Fiber Laser
- Fiber optic Systems Testing



For more Info

Please contact us at:

Tel: +86-755-23736280

Fax: +86-755-26746512

E-mail: sales@dkphotonics.com

<https://www.dkphotonics.com>

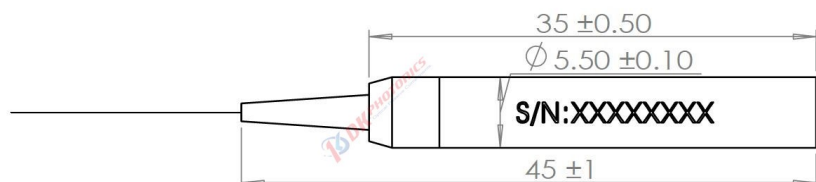
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

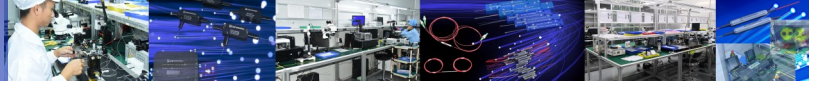
Dahe Road, Longhua Dis.,

Shenzhen, China 518109

Package Dimension



*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.



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Performance Specifications

| Parameter | Unit | Values |
|--|--------|---------------------------|
| Center Wavelength | nm | 1950 |
| Operating Bandwidth | nm | ±30 |
| Max. Insertion Loss | dB | 0.8(45deg.), 1.0(90deg.) |
| Faraday Rotation Angle (Single Pass) | degree | 45 or 90 |
| Rotation Angle Tolerance over Wavelength and Temperature | degree | +/-2.0 |
| Min. Extinction Ratio | dB | 20 |
| Max. Optical Power | mW | 300 |
| Fiber Type | - | PM1550(default) or PM1950 |
| Operation Temperature | °C | -5 ~ +70 |
| Storage Temperature | °C | -40 ~ +85 |
| Dimensions | mm | Ø5.5xL35 |

1. Above specification are for device without connector, and may change without notice.

2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower. Power transmits through the connector less than 2W. The default connector key is aligned to slow axis.

Order information P/N: PMFM-①-②-③-④-⑤-⑥

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250µm bare fiber pigtail.

| ① | ② | ③ | ④ | ⑤ | ⑥ |
|-------------|--------|---------------|----------------------|--------------|------------|
| Wavelength | Angle | Dimensions | Pigtails Diameter | Fiber Length | Connector |
| 1950:1950nm | 45:45° | 1: Ø5.5xL35mm | 25:250µm bare fiber | 05:0.5m | 00: None |
| XX: Others | 90:90° | | 90:900µm Loose Fiber | 10:1.0m | FP: FC/PC |
| | | | XX: Others | 15:1.5m | FA: FC/APC |
| | | | | XX: Others | XX: Others |

Part Number Example: PMFM-1950-45-1-90-10-00

Description: 1950nm PM Faraday Mirror, Faraday rotation angle: 45°, Ø5.5xL35mm package, PM1550 fiber with 0.9mm OD loose tube, 1.0m length fiber pigtails, and no connectors at all ports.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.