

## 1030nm Polarization Maintaining Mirror with Bandpass Filter 10 nm



### Description

The LD-PD' S PMMBP Series Polarization Maintaining Mirror with Bandpass Filter 10 nm is the result of years of extensive experiences in magneto-optics technology. The components demonstrate low insertion loss and robustness against environmental variation, making them ideal candidates in the field applications of fiber-optics sensing systems, and test & measurement instrumentation.

### Features

- High Power Stability
- Low Insertion Loss
- High Isolation
- High Extinction Ratio

### Application

- Femto-second Fiber laser application
- Dense wavelength division multiplexing (DWDM)
- EDFAs for small package designs
- High power Fiber laser

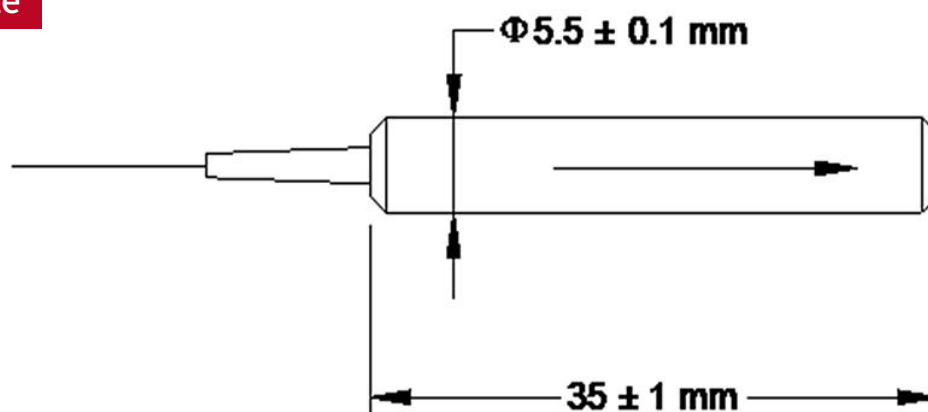
## Optical Characteristics

Tsub=25°C, CW bias unless stated otherwise

Parameter	Unit	Value
Center Wavelength ( $\lambda_c$ )	nm	1030
Min. Pass Bandwidth @ -0.5 dB	nm	10
Min. Extinction Ratio	dB	20
Min. Isolation @ 980 ~ 1020 nm & 1040 ~ 1070 nm	dB	25
Max. Insertion Loss	dB	1.0
Thermal Stability	dB/°C	$\leq 0.005$
Min. Return Loss	dB	50
Max. Average Optical Power	mW	300
Min. Directivity	dB	50
Max. Tensile Load	N	5
Fiber Type		PM980 fiber
Operating Temperature	°C	10 to +50
Storage Temperature	°C	0 to +60

\*IL 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 Size



## PM980 Fiber Nominal Characteristics and Tolerances

Parameters	Specification
Operating Wavelength	980 – 1200 nm
Cross Talk	-40dB
Mode Field Diameter(Gaussian)	$6.6 \pm 0.5 \mu\text{m}$ @ 1060 nm
Cutoff	$870 \pm 40 \text{ nm}$
Beat Length	1.5-2.7mm
Mode Field diameter	$\leq 3.5 \text{ mm}$ @ 1060 nm

## Ordering Info

**PL- PMMBP -BW△-W□□□□-□□-□-XX (PMMBP:Polarization Maintaining Mirror with Bandpass Filter)**

BW△:Band pass Width

10:10nm

08:8nm

5050:50:50

W□ □□□:Wavelength

1030:1030nm

1064:1064nm

1310:1310nm

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1550:1550nm

□□: Fiber Jacket

B: Bare fiber

L:900um Loose tube

C:Customize

□:Working axis

F:Fast axis alignment

S:Slow axis alignment

XX: Fiber and Connector Type

PPN= PM 980 fiber+None

PP= PM 980 fiber + FC/PC

PA= PM 980 fiber + FC/APC

## Labeling

## Laser Components Safety

Due to the small size of the Fiber optic module, the box packaging is labeled with the laser radiation hazard symbol and safety warning labels shown below:



Shipping box label

## User Safety

### Safety and Operating Considerations

The laser light emitted from this laser diode is invisible and may be harmful to the human eye. Avoid looking directly into the fiber when the device is in operation.

CAUTION: THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT INCREASES EYE HAZARD.

Operating the laser Components outside of its maximum ratings may cause device failure or a safety hazard. Power supplies used with this component cannot exceed maximum peak optical power.