

## 1580nm PM Faraday Rotator Mirror

1580nm PM Faraday Rotator Mirror is a fiber component which can change state of polarization (SOP), the polarization light will rotate 45° when the input light passes the faraday rotator, and will rotate another 45° after the mirror turns the light back, the output light will have a polarization state rotated 90°, and orthogonal to the input polarization state. It's widely used in Fiber Laser, Fiber Amplifier System and Fiber Optic Sensor.

### Application:

Fiber Optic Amplifier  
Fiber Optic Sensor  
Fiber Laser  
Lab And Research

### Features:

High Extinction Ratio  
High Power Available  
Low Insertion Loss  
High Reliability



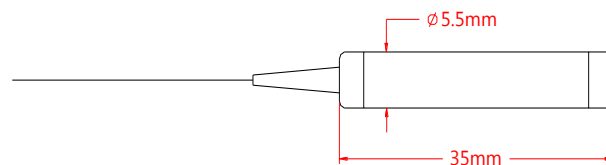
### Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	$\lambda$	1580	nm
Bandwidth	BW	$\pm 15$	nm
Typ. Insertion Loss	IL	0.4	dB
Max. Insertion Loss	IL	0.6	dB
Faraday Rotate Angle (Single Pass)		$45 \pm 1$	Degree
Min. Extinction Ratio	ER	20	dB
Max. Optical Power (CW)	P	500	mW
Max. Tensile Load		5	N
Fiber Type		PM Panda fiber	-
Operating Temperature	T	-5~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension		$\Phi 5.5 \times L35$	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, ER will be 2dB lower, slow axis is default aligned to the connector key.

### Drawing:



### Ordering Information (Part Number):

PMFRM- <b>WWW</b> - <b>J</b> - <b>LL</b> - <b>CC</b>			
<b>WWW</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	B - 250um Bare Fiber	05 - 0.5m	NE - None
1450 - 1450nm	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1480 - 1480nm	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1550 - 1550nm	3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
1580 - 1580nm		SS - Specify	SU - SU/APC
			LA - LC/APC
			LU - LC/UPC
			SS - Specify