

## 1580nm PM Faraday Rotator

1580nm PM Faraday Rotator is a fiber component which can change state of polarization (SOP), the output polarization light will rotate 45° or 90° when the input light passes faraday rotator, It's widely used in Fiber Laser, Fiber Amplifier System and Fiber Optic Sensor. High power type is available upon request.

### Application:

Fiber Optic Amplifier  
Fiber Optic Sensor  
Fiber Laser  
Lab And Research

### Features:

High Extinction Ratio  
High Power Available  
Low Insertion Loss  
High Reliability



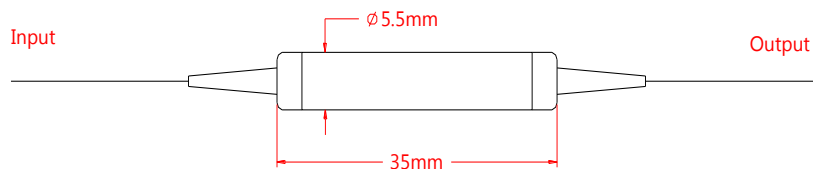
### Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	$\lambda$	1580		nm
Bandwidth	BW	±15		nm
Faraday Rotate Angle		45±1	90±1	Degree
Typ. Insertion Loss	IL	0.3	0.4	dB
Max. Insertion Loss	IL	0.5	0.6	dB
Min. Extinction Ratio	ER	20		dB
Min. Return Loss	RL	50		dB
Max. Optical Power (CW)	P	500		mW
Max. Tensile Load		5		N
Fiber Type		PM Panda fiber or SMF-28e fiber		-
Operating Temperature	T	-5~70		°C
Storage Temperature	T	-40~85		°C
Package Dimension		Φ5.5×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, RL will be 5dB lower, ER will be 2dB lower, slow axis is default aligned to the connector key.

### Drawing:



### Ordering Information (Part Number):

PMFR-**WWW**-**FF**-**J**-**LL**-**CC**

<b>WWW</b>	<b>FF</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Fiber Type (Input/Output)	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	PP - PM Panda fiber on input	B - 250um Bare Fiber	05 - 0.5m	NE - None
1450 - 1450nm	and output port	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1480 - 1480nm	SS - SMF-28e fiber on input	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1550 - 1550nm	and output port	3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
1580 - 1580nm	PS - PM Panda fiber on input		SS - Specify	SU - SU/APC
	SMF-28e fiber on output			LA - LC/APC
	SP - SMF-28e fiber on input			LU - LC/UPC
	PM Panda fiber on output			SS - Specify