1450nm PM Faraday Rotator Mirror

1450nm 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:

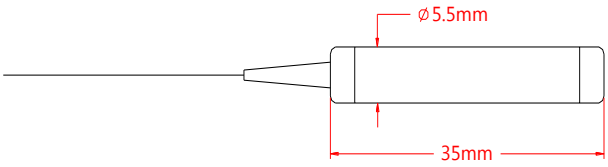
High Extinction Ratio
High Power Available
Low Insertion Loss
High Reliability

Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1450	nm
Bandwidth	BW	±15	nm
Typ. Insertion Loss	IL	0.4	dB
Max. Insertion Loss	IL	0.6	dB
Faraday Rotate Angle (Single Pass)		45±1	Degree
Min. Extinction Ratio	ER	20	dB
Max. Optical Power (CW)	P	500	mW
Max. Tensil Load		5	N
Fiber Type		PM Panda fiber	-
Operating Temperature	T	-5~70	℃
Storage Temperature	T	-40~85	℃
Package Dimension		Φ5.5×L35	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23℃.
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-WWWW-J-LL-CC

WWWW	J	LL	CC
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