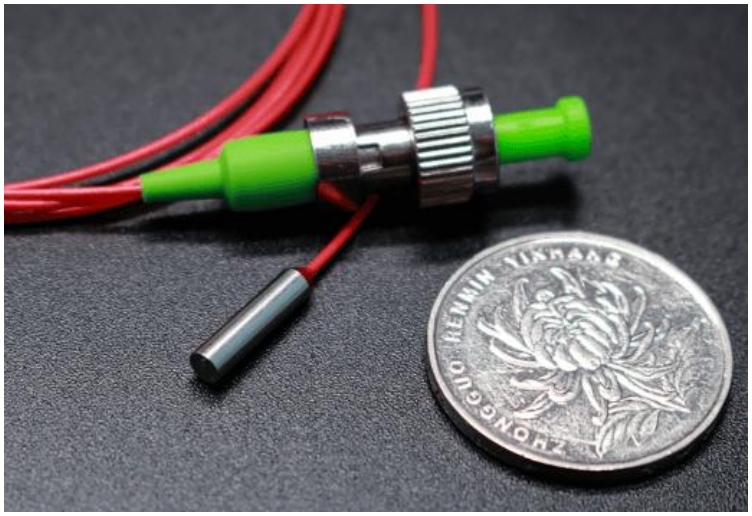
1310nm Faraday rotator mirror 45 degrees



Product Description

The fiber optic Faraday rotator mirror is used to change the polarization state of the input light, so that the polarization direction of the light after passing through the Faraday rotator and the mirror is rotated by 45 degrees. It is orthogonal to the input polarization light and has the opposite polarization direction. The internal structure of the fiber optic Faraday rotator mirror uses micro-optical components, making it suitable for various types of optical fibers, with different options available for the input and output fibers.

Product features

Operating wavelength: 1310nm, other options available、 Beam expansion technology、 Low back reflection、 Compatible with various optical fibers

Part Number

MP-FRM-1310-45-PA

Application area

Interferometric sensors、Fiber amplifiers、Optical isolators、Tunable fiber lasers, etc.

Core parameters

Center Wavelength	Rotation Angle	Connector
1310nm	45 degrees	FC/APC

General Parameters

PN#	Name	Description
MP-FRM-1310-45-PA	1310nm Faraday rotator mirror	Working wavelength: 1310nm Rotation angle (round trip): 45 degrees Fiber type: PM1310 Length: 1 meter

Technical Parameters

Parameter	Unit	Specs
Center Wavelength	nm	1310
Operating Bandwidth	nm	±15
Insertion Loss	dB	0.5
Max. Insertion loss	dB	0.7
Faraday rotation angle (around)	degree	90
Max. rotation angle deviation (central wavelength +23°)	degree	±2
Max. Polarization Dependent Loss	dB	0.05
Max. Polarization Mode Dispersion (PMD)	ps	0.05
Max. Input power	mW	300
Max. Tensile	N	5
Operating temperature	℃	-5~+70
Storage temperature	℃	-40~+85
Fiber type		PM1300
Fiber length	m	1
Connector		FC/APC
Alignment method		Slow axis alignment
Loose tube diameter	um	900