

1310/1480/1550 Faraday Mirror

Product Description

Agiltron FRMR series Faraday Mirror is designed for fiber optic networks and measurement applications. Upon reflection, the state of polarization (SOP) rotates 90 degrees from that of the input light.

The Agiltron Faraday Mirrors can help to eliminate polarization sensitivity of an optical system, such as fiber interferometers, sensors, fiber lasers, Brillouin amplifiers and fiber optic modules. The unique design and process features low insertion loss with compact size and epoxy free optical path.



Features

- Low Insertion Loss
- High Isolation
- Low PDL
- High Reliability
- Low Cost

Performance Specifications

FRMR Faraday Mirror	Specification	Unit
Central Wavelength (λ_c)	1310/1480/1550	nm
Typical Spectral Width ($\Delta\lambda$)	30	nm
Minimum Spectral Width ($\Delta\lambda$)	50	nm
Typical Insertion Loss (λ_c , 23°C, no connector)	≤ 0.35	dB
Maximum Insertion Loss (Over λ_o^{**} , 23°C, no connector)	≤ 0.6	dB
Faraday Rotation Angle (λ_c , 23°C)	90 ± 1.0	deg
Polarization Dependant Loss	≤ 0.05	dB
Polarization Mode Dispersion	≤ 0.05	ps
Operating Temperature	-5 ~ +70	°C
Storage Temperature	-40 ~ +85	°C
Optical Power Handling	≤ 300	mW
Package Dimensions	$\varnothing 4.5 \times L20$	mm
* Special order for 50nm spectral width		
** $\lambda_o = (\lambda_c - \Delta\lambda / 2) - (\lambda_c + \Delta\lambda / 2)$		

Applications

- Fiber Interferometer
- Fiber Laser
- Fiberoptic Sensor
- Brillouin Amplifier
- Fiberoptic Module

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Ordering Information

FRMR-	00							
Type	Wavelength	Grade	Package	Fiber Type		Fiber Length	Connector	
00=Standard	3=1310 4=1480 5=1550 0=Special	1=Standard 0=Special	1=∅4.5x20 0=Special	1=SMF-28 0=Special	1=Bare Fiber 3=900µm Loose Tube 0=Special	1=0.25m 2=0.5m 3=1.0m 0=Special	1=None 2=FC/PC 3=FC/APC 4=SC/PC 5=SC/APC 6=ST/PC 7=LC 0=Special	

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