

# Faraday Rotator Mirror FRM

*Specialist in Special Optic Devices*

## Introduction

Beamq **Faraday Rotator Mirror**, is used for eliminating polarization induced fluctuations in fiber interferometers, Brillouin amplifier systems, fiber laser systems, fiber sensor systems, and fiber optic antenna remoting systems, with excellent optical performance index, ultra-small package size, high environmental adaptability and reliability. The state of polarization (SOP of the reflected light is rotated 90 degrees from that of the input light. A unique property of Faraday rotator mirrors is that at any point along the fiber, the SOPs of the forward going and reflected light are always orthogonal to each other, regardless of the birefringence of the fiber.



## Specification

Parameters	Unit	Values
Center Wavelength	nm	1310/1550
BandWidth	nm	15
Rotating Angle	°	90
Rotating Angle Tolerance	°	1
Insertion Loss	dB	0.7
Polarization Dependent Loss	dB	0.1
Polarization Mode Dispersion	ps	0.1
Max Optical Power	mw	500
Resistance of Water Pressure	Mpa	5-50
Operating Temperature	°C	-45+70
Storage Temperature	°C	-55+85
Package Dimension	mm	2.5x12

\*IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added.

\*Above specifications are for device without connector and may change without notice.

## Ordering Information

FRM-①-②-③-④-⑤-⑥

①Center Wavelength	②Package Dimension	③Fiber Type	④Fiber Length	⑤Fiber Jacket	⑥Connector
1310-1310nm	C1-2.5*12mm	SMF28e-SMF28e	1-1M	0-Bare Fiber	FU-FC/PC
1550-1550nm	C2-5.5*35mm	G657A1-G657A1	1.5-1.5M	1-900 μ m Loose Tube	FA-FC/APC
S-Specify	S-Specify	G657A2-G657A2	S-Specify		N-None
		BL1015A-BL1015A			
		BL1015B-BL1015B			
		S-Specify			