



RC Fiber Faraday Mirror (RCFM Series)

Rev 11

Description

The RC Fiber Faraday Mirror is a passive device that provides 90 degree rotation without regarding to the polarization state of the input light. The RCFM offers excellent performance including the lowest possible insertion loss and environmental stability. It is used in compact optical amplifier, DWDM systems, sensors, compact optical circuits and other fiber optic communication equipment to minimize the polarization effect.

Key Features

- Low Insertion Loss

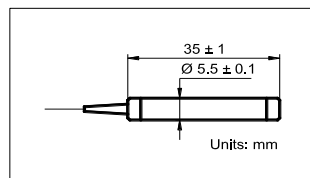
Applications

- Denser Channel Plans
- Fiber Sensing

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1550
Operating Wavelength Range	nm	$\lambda_c \pm 15$
Typ. Insertion Loss	dB	1.0
Max. Insertion Loss	dB	1.2
Faraday Rotation Angle (Single Pass)	degree	45
Max. Rotation Angle Tolerance over Wavelength at 23 °C	degree	± 3
Max. Polarization Dependent Loss	dB	0.05
Max. Optical Power (Continuous Wave)	mW	300
Max. Tensile Load	N	5
Fiber Type	-	RC 1550 Fiber
Operating Temperature	°C	- 5 to + 70
Storage Temperature	°C	- 40 to + 85

Package Dimensions



Ordering Information

RCFM-①①-②-③-④

①①: Wavelength

55 - 1550 nm

SS - Specify

②: Connector Type

N - None

③: Fiber Type

B - 170 μ m Bare Fiber

L - 900 μ m Loose Tube

S - Specify

④: Fiber Length

1 - 1 m

S - Specify