


[Home](#) | [Company](#) | [LEED](#) | [News](#) | [Terms](#) | [Learning](#) | [Career](#) | [Contact](#)
PRODUCTS

[Fiber Rotary Joints](#)
[Electric Slip Rings](#)
[Fiber Components](#)
[Fiber Polishers](#)
[Cable Reels](#)

SERVICES

[Fiber Termination](#)
[Outdoor Fiber Patchcords](#)
[Laser Pigtailling](#)
[Training](#)

SOLUTIONS

[Sliprings](#)
[RF Rotary Joints](#)
[Fluid Rotary Unions](#)
[Multiplexers](#)
[Media Converters](#)

 Powered by [Google Translate](#)

609.588.8801 609.895.9552

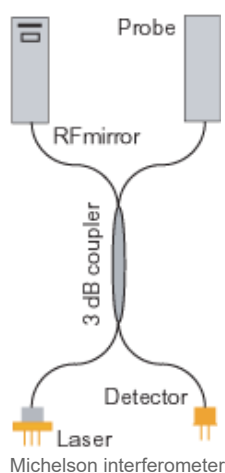
FIBER COMPONENTS: Faraday rotator mirror

FRM-155-28

[CLICK for larger view](#)

Optical beams traveling in a singlemode fiber experience random birefringence, which could make it difficult or impossible for fiberoptic Michelson interferometer to function properly. Faraday rotator mirrors take the output beam from a singlemode fiber and rotate the polarization by 90 degrees before sending it back through the same fiber. By doing so, a Faraday mirror functions as a phase conjugate mirror and cancels out any birefringent effects the beam experienced along the forward path.

Princetel's FRM series Faraday rotator mirrors offer strong suppression against secondary reflections (-55 dB), a feature critical to most interferometer applications.

**SPECIFICATIONS****PARAMETERS**

Wavelength
 Insertion loss
 Polarization rotation accuracy
 Return loss
 Pulling strength
 Optical power handling
 Working temperature
 Storage temperature
 Humidity tolerance
 Housing material
 Fiber types
 Connector types
 Dimensions
 Weight

VALUES

1310 or 1550 nm
 <1 dB (typical: 0.5 dB)
 <+/-2 deg. (typical: <+/-1 deg.)
 >55 dB (non reflective surfaces)
 10 N (900 um jacket)
 23 dBm
 -40 to 65 C/FRM, -20 to 65 C/FRM4
 -60 to 85 C/FRM, -40 to 75 C/FRM4
 95% RH non condensing
 Stainless steel
 Corning SMF28 with 900 um buffer
 FC, SC, ST, SMA, or LC (& APC counterparts)
 6x9 mm (diaXL)/FRM, 4x20 mm (diaXL)/FRM4
 4 g/FRM, 2 g/FRM4

CREATE YOUR PART NUMBER

FRM- [wavelength code](#)- [fiber code](#)- [connector code](#)
 FRM4- [wavelength code](#)- [fiber code](#)- [connector code](#)

DOCUMENTS DOWNLOAD

► [PDF datasheet in more details \(0.2kB\)](#) [CLICK HERE](#)



Copyright Princetel, Inc. All rights reserved.

