

Faraday Mirror



ACP's FRDMR Series is a fiber optic polarization rotation mirror designed for fiber optic networks and measurement applications. The device can help to eliminate polarization sensitivity of an optical fiber system. Applications include eliminating antenna remoting systems. FRDMR Series Faraday Mirror is optical path epoxy free and thus offers low insertion loss and high temperature stability.

All AC Photonics' products are Telcordia qualification tested.

Key Features

- High Isolation
- Low Insertion Loss
- High Return loss
- Low Polarization Sensitivity
- Epoxy Free Optical Path

Applications

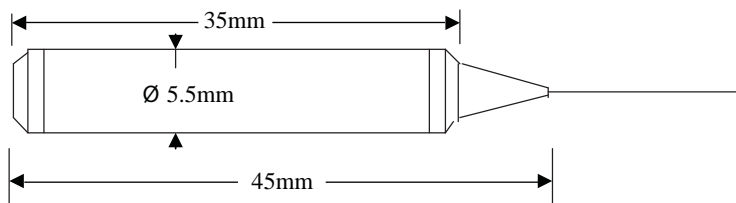
- Fiber Optical Amplifier
- CATV Fiberoptic Links
- Fiberoptic Systems Testing
- Fiberoptic LAN Systems
- Telecommunications

Performance Specifications

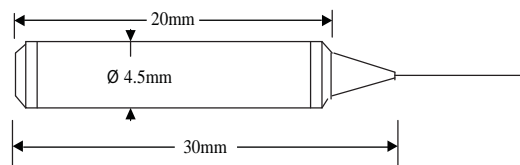
Parameter	Specifications
Center Wavelength	1310nm, 1480nm, or 1550nm
Minimum Bandwidth	30nm
Typical Insertion Loss	≤ 0.4dB
Maximum Insertion Loss	≤ 0.6dB
Maximum Polarization Dependent Loss	≤ 0.1dB
Maximum Polarization Mode Dispersion	≤ 0.05ps
Faraday Rotation Angle at Center Wavelength (Single Pass)	45°
Rotation Angle Tolerance at Center Wavelength	0.5°
Optical Power	300mW
Maximum Tensile Load	5N
Operating Temperature	-5 to +75°C
Storage Temperature	-40 to +85°C
Package Dimensions	Ø5.5mmxL35mm or Ø4.5mmxL20mm or Ø3.0mmxL20mm or Ø2.5mmxL14mm

Mechanical Dimensions

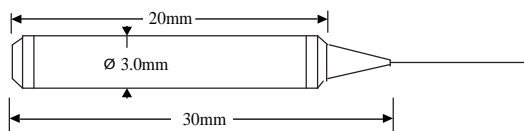
Standard Package Dimensions:



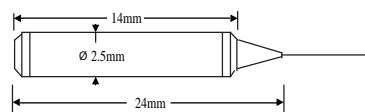
Mini (M) Package Dimensions:



Mini (N) Package Dimensions:



Mini (U) Package Dimensions:



Ordering Information

FRDMR	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Wavelength	Pigtail Style	Fiber Length	In/Out Connector	Dimensions
	13 = 1310 nm 14 = 1480 nm 15 = 1550 nm	1 = Bare Fiber 2 = 900um Jacket	1 = 1.0m 2 = 2.0m S = Specify	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC	M = Ø4.5mmxL20mm N = Ø3.0mmxL20mm U = Ø2.5mmxL14mm Leave Empty = Ø5.5mmxL35mm