

Single Mode 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 polarization induced fluctuations in fiber interferometers, Brillouin amplifier systems, fiber laser systems, and fiber optic antenna remoting systems. FRDMR Series Faraday Mirror is optical path epoxy free and thus offers low insertion loss and high temperature stability.

PERFORMANCE SPECIFICATIONS

Parameter	Specifications
Operating Wavelength	1310, 1480 and 1550nm
Bandwidth	± 15nm
Insertion Loss	0.40 dB Typ. ≤0.60dB Max.
Polarization Dependent Loss	≤ 0.10dB
Polarization Mode dispersion	≤ 0.05ps
Faraday Rotation angle*	45°
Rotation Angle Tolerance**	± 0.50°
Optical Power	≤ 300mW
Tensile Load	≤5N
Operating Temperature	- 5 to +75°C
Storage Temperature	- 40 to +85°C
Fiber Type	SM Fiber
Package Dimensions	A= Standard, Ø 5.5 x L35 M= Mini Ø 4.5 x L20 N= Mini Ø 3.0 x L20 U= Mini Ø 2.5 x L14

Note:

* At center wavelength (Single pass)

** At center wavelength

FEATURES

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

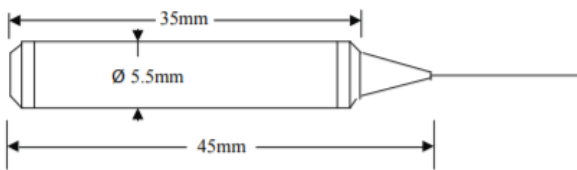
APPLICATION

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

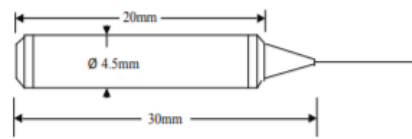
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MECHANICAL DIMENSIONS

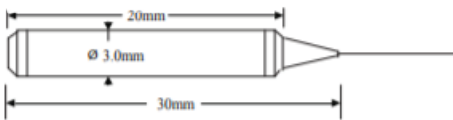
A Package



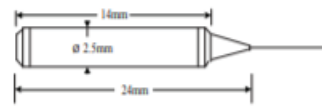
M Package



N Package



U Package



PORT CONFIGURATION



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ORDERING INFORMATION

FRDMR	Operating Wavelength	Package	Fiber Type*	Pigtail Style	Fiber Length	Connector
31=1310nm	A=A Package	2=SMF-28 Ultra (G.657.A1)	1=Bare fiber	05=0.5m	0 = None	
48=1480nm	M=M Package		2=900um	10=1.0m	1 = FC/APC	
55=1550nm	N=N Package	3=ClearCurve ZBL (G.657.B3)	loose tube	·	2 = FC/PC	
	U=U Package			·	3 = SC/APC	
				·	4 = SC/PC	
				20=2.0m	5 = ST	
					6 = LC/UPC	
					7 = LC/APC	

*1=SMF-28(G.652) is available upon request.