

Faraday Mirror

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- Low Polarization Sensitivity
- Low Profile Packaging

APPLICATIONS

- Fiber Optic Amplifiers
- Sensing Systems
- Telecommunication Networks
- CATV Networks
- LAN Systems

SPECIFICATIONS

Parameter	Unit	Value	
Center Wavelength (λ_c)	nm	1310, 1480, 1550, 1590	
Bandwidth	nm	+/-15	
Insertion Loss	(Typ.)	dB	0.4
	(Max.)	dB	0.6
Faraday Rotation Angle (Single Pass)	Deg	22.5, 45, 90	
Rotation Angle Tolerance (23°C, λ_c +/-15nm)	Deg	\leq +/-3	
Polarization Dependent Loss (SM Fiber Type)	dB	\leq 0.05	
Extinction Ratio (PM Fiber Type)	ps	\geq 20	
Fiber Type	SM Fiber Type	-	SMF-28 Fiber or 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 25/250um DC Fiber (R) or 25/300um DC Fiber (G)
	PM Fiber Type	-	PM1310/1550 Panda Fiber or 10/125um PMDC Fiber (O) 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)
Fiber Tensile Load	N	5	
Maximum Optical Power (CW)	mW	300	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	\varnothing 3.8x ^L 22(Mini-Size), \varnothing 5.5x ^L 35 (Standard)
	Metal Box	mm	^L 120x ^W 12x ^H 10

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

4. Package size may be different for different rotation angle, fiber type and optical power.

ORDERING INFORMATION (PN)

FFDM-NNNN	- (NN)	- C	(C)	(C)	C	NN	-CC/CCC
Center Wavelength	Rotation Angle	Fiber Type	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1310-1310nm	90=90degree	P=PM Fiber	M=Metal Box	O=10/130DC or 10/125PMDC Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
1480-1480nm	225=22.5degree	S=SM Fiber	N=Mini Size	T=12/130DC or PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1550-1550nm	Blank for 45degree		Blank for SST	G=25/300 DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1590-1590nm				Blank for SMF-28 Fiber or PM1310/1550 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

