

1310~1590nm Faraday Mirror with Phase Delay

FEATURES

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

APPLICATIONS

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

SPECIFICATIONS

Parameter	Unit	Value	
Center Wavelength (λ_c)	nm	1310, 1480, 1550, 1590	
Bandwidth	nm	+/-15	
Insertion Loss	(Typ.)	0.5	
	(Max.)	0.9	
Faraday Rotation Angle (Single Pass)	deg	90 (Slow axis in and Slow axis Out)	
	A: FR+WP+FR		
	B: WP+FR	45 (Slow axis in and Fast axis Out)	
Phase Delay	-	π , $\pi/2$, $\pi/4$ or specify	
Rotation Angle Tolerance (23°C, λ_c)	Deg	$\leq \pm 3$	
Polarization Dependent Loss (SM Fiber Type)	dB	≤ 0.15	
Extinction Ratio (PM Fiber Type)	ps	≥ 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	
Max. Optical Power (CW)	mW	300	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(\varnothing)5.5x35
	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. Forward/backward signals transmit through fast axis/slow axis of a waveplate (WP) induces the phase delay.
 4. 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.

ORDERING INFORMATION (PN)

FRMD-NNNN	-	C	N	C	- (C)	(C)	C	NN	-CC/CCC
Center Wavelength	Rotation Angle	Phase Delay	Type	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
1310~1310nm	A=90	1= π	P=PM Fiber	M=Metal Box	O=10/130DC or 10/125PMDC Fiber	B= Bare fiber	05=0.5m	N=Without Connector	
1480~1480nm	B=45	2= $\pi/2$	S=SM Fiber	Blank for SST	T=12/130DC or PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
1550~1550nm		4= $\pi/4$			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	