

1310~1590nm High Power 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.)	dB	0.5
	(Max.)	dB	0.9
Faraday Rotation	A: FR+WP+FR	deg	90 (Slow axis in and Slow axis Out)
Angle (Single Pass)	B: WP+FR	deg	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 +/-3
Polarization Dependent Loss (SM Fiber Type)	dB		\leq 0.15
Extinction Ratio (PM Fiber Type)	ps		\geq 18
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)	W		0.3, 0.5, 1, 2, 3, 5, 10
Operating Temperature	°C		0~70
Storage Temperature	°C		-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	(\varnothing)5.5x35 (\leq 5W); (\varnothing)6.0x48 (5~10W)
	Metal Box	mm	(L)120x(W)12x(H)10

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 - Forward/backward signals transmit through fast axis/slow axis of a waveplate (WP) induces the phase delay.
 - 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	-HP NN	-(C)	(C)	C	NN	-CC/CCC
Center Wavelength	Rotation Angle	Phase Delay	Type	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1310~1310nm	A=90	1= π	P= PM Fiber	1= 1W	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	3=3W	Blank for SST	T=12/130DC or PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1550~1550nm		4= $\pi/4$		5= 5W		G=25/300 DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1590~1590nm				10=10W		Blank for SMF-28 Fiber or PM1310/1550 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

