2000nm 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 (λc)		nm	1900, 1950, 2000, 2050
Bandwidth		nm	+/-15
Insertion Loss	(Typ.)	dB	0.7
	(Max.)	dB	1.4
Faraday Rotation Angle (Single Pass)	A: FR+WP+FR	deg	90 (Slow axis in and Slow axis Out)
	B: WP+FR	deg	45 (Slow axis in and Fast axis Out)
Phase Delay		-	π, π/2, π/4 or specify
Rotation Angle Tolerance (23°C, λc)		Deg	≤+/-3
Polarization Dependent Loss (SM Fiber Type)		dB	≤0.15
Extinction Ratio (PM Fiber Type)		ps	≥18
Fiber Type	SM Fiber Type	-	SMF-28 Fiber or SM1950 Fiber (V) 10/130um DC Fiber (O) or 25/250um DC Fiber (R)
	PM Fiber Type	-	PM1550 Panda Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)
Fiber Tensile Load		N	5
Max. Optical Power (CW)		W	0.3, 0.5, 1, 2, 3, 5, 10
Operating Temperature		°C	0~50
Storage Temperature		°C	-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤3W); (Ø)6.0x48 (3~10W)
	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. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4. Forward/backward signals transmit through fast axis/slow axis of a waveplate (WP) induces the phase delay.

5. 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*
1900=1900nm	A=90	1=π	P= PM Fiber	1= 1W	M=Metal Box	V=SM1950 or PM1950 Fiber	B= Bare fiber	05=0.5m	N=Without Connector
1950= 1950nm	B=45	2=π/2	S=SM Fiber	3=3W	*Blank* for SST	O=10/130 DC or PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
2000= 2000nm		4=π/4		5= 5W		R=25/250 DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
2050= 2050nm				10=10W		*Blank* for SMF-28 Fiber or PM1550 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector