

1020-1120nm High Power Faraday Mirror with Phase Delay

FEATURES

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

APPLICATIONS

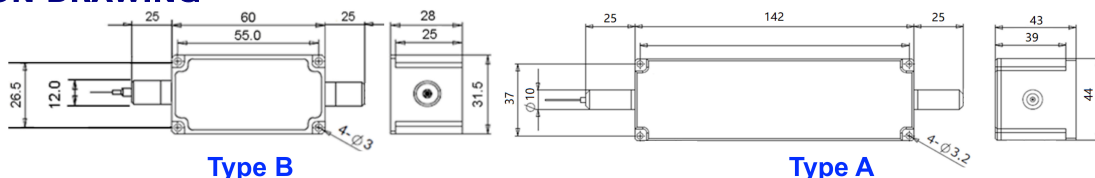
- Fiber Optic Amplifiers
- Sensing Systems
- Research Labs

SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (CW)	nm	1020, 1030, 1040, 1053, 1064
		1070, 1080, 1092, 1103, 1120
Bandwidth	nm	+/-10
Insertion Loss	Typ.	0.8
	Max.	1.5
Faraday Rotation	A: FR+WP+FR	90 (Slow axis in and Slow axis Out)
Angle (Single Pass)	B: WP+FR	45 (Slow axis in and Fast axis Out)
Phase Delay	-	n, n/2, n/4 or specify
Rotation Angle Tolerance (CW, 23°C)	Deg	+/-5
PDL (for SM Fiber Type)	dB	≤0.20
Extinction Ratio (for PM Fiber Type)	dB	≥18
Fiber Type	SM Fiber Type	HI1060 Fiber or 10/125um SC Fiber (E)
		10/125um DC Fiber (O), 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R)
Fiber Type	PM Fiber Type	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)
		10/125um PMDC Fiber (O) or 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) 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, 15, 20, 30, 40, 50
Operating Temperature	°C	0~50
Storage Temperature	°C	-20~75

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.5dB 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.
 6. Package size may be different for difference optical power.

DIMENSION DRAWING



ORDERING INFORMATION (PN)

FRMD-NNNN	- C	N	C	-HP	NN	-(C)	C	NN	-CC/CCC
Center Wavelength	Rotation Angle	Phase Delay	Type	Optical Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
1030=1030nm	A=90	1=π	P= PM Fiber	1= 1W	E=10/125 SC or PM1060L Fiber	B= Bare Fiber	05=0.5m	N=Without Connector	
1064=1064nm	B=45	2=π/2	S=SM Fiber	5=5W	Q=20/130 DC or PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
1092=1092nm		4=π/4		10=10W	R=25/250 DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
1120=1120nm				50=50W	Blank for HI1060 or PM980 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	