

975-1000nm High Power Faraday Mirror with Phase Delay

FEATURES

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

APPLICATIONS

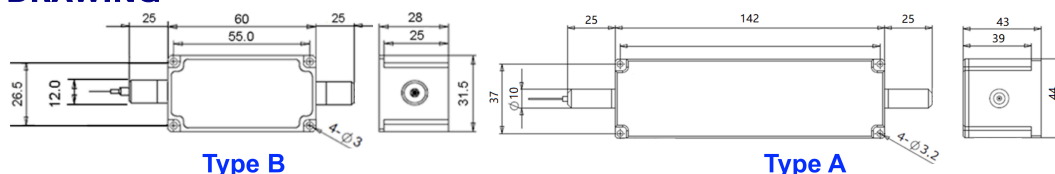
- Fiber Optic Amplifiers
- Sensing Systems
- Research Labs

SPECIFICATIONS

Parameter	Unit	Value	
Center Wavelength (CW)	nm	975, 980, 990, 1000	
Bandwidth	nm	+/-10	
Insertion Loss	Typ.	0.8	
	Max.	1.5	
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 (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)
	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:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.5dB 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.
 - 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	
975=975nm	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	
980=980nm	B=45	2= $\pi/2$	S=SM Fiber	5=5W	Q=20/130 DC or PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
990=990nm		4= $\pi/4$		10=10W	R=25/250 DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
1000=1000nm				50=50W	Blank for HI1060 or PM980 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	