

970-1000nm High Power Partial Reflective Faraday Mirror

FEATURES

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

APPLICATIONS

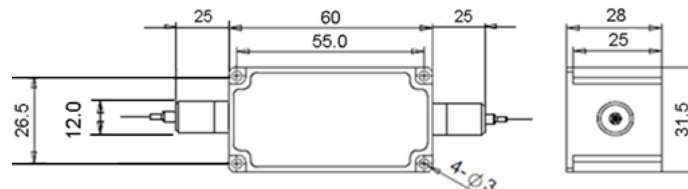
- Fiber Optic Amplifiers
- Sensing Systems
- Telecommunication Networks
- LAN Systems

SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (CW)	nm	975, 980, 990, 1000
Bandwidth	nm	+/-10
Excess Loss (Max.)	dB	≤1.5
Nominal Reflective Ratio	%	1±0.5, 2±0.4, 5±1, 10±2, 50±8, 80, 90
Faraday Rotation Angle (Single Pass)	Deg	22.5, 45, 90
Rotation Angle Tolerance (CW, 23°C)	Deg	≤+/-5
Faraday Position	Forward Type	-
	Backward Type	-
		Faraday is before the Mirror
		Faraday is after the Mirror
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:**
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. 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.

DIMENSION DRAWING



ORDERING INFORMATION (PN)

FFPM-NNNN-NN	(NN)	- (C)	C	C	-HP NN	-(C)	C	NN	-CC/CCC	
Center Wavelength	Ref. Ratio	Rotation Angle	Faraday	Input Fiber	Output Fiber	Optical Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
975=975nm	01=1%	90= 90degree	Position	S=SM Fiber	S=SM Fiber	03=300mW	E=10/125 SC or PM1060L Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
980=980nm	10=10%	225=22.5degree	B=Backward	P= PM Fiber	P= PM Fiber	1= 1W	Q=20/130 DC or PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
990=990nm	50=50%	Blank for 45degree	Blank for Forward			5=5W	R=25/250 DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1000=1000nm	80=80%					10=10W	Blank for HI1060 or PM980 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

