

970-1000nm High Power Partial Reflective Faraday Mirror

FEATURES

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

APPLICATIONS

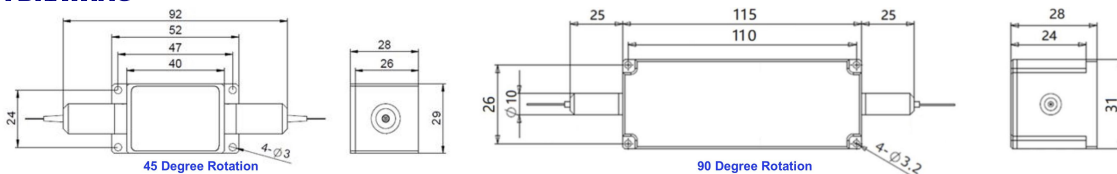
- Fiber Optic Amplifiers
- Sensing Systems
- Telecommunication Networks
- CATV Networks
- LAN Systems

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	45, 90	
Rotation Angle Tolerance (CW, 23°C)	Deg	≤+/-5	
Faraday Position	Forward Type	-	Faraday is before the Mirror
	Backward Type	-	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)
	PM Fiber Type	-	20/130um DC Fiber (Q) or 25/250um DC Fiber (R)
		-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)
Fiber Tensile Load	N	5	
Max. Optical Power (CW)	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100	
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.
 - 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 different rotation angle, fiber type and optical power.

DIMENSION DRAWING



ORDERING INFORMATION (PN)

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%	Blank for 45degree	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 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/APC=SC/APC Connector

