

## 970~1000nm Partial Reflective Faraday Mirror for Pulse Power

### FEATURES

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

### APPLICATIONS

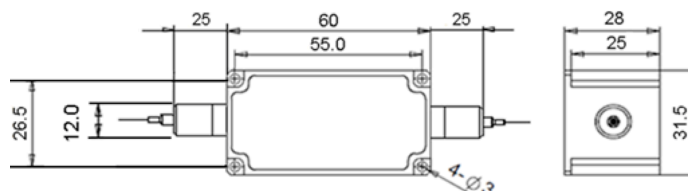
- Fiber Optic Amplifiers
- Sensing Systems
- Telecommunication Networks

### 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	-	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)
		-	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. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50	
Max. Peak Power for Pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
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.

### DIMENSION DRAWING



### ORDERING INFORMATION (PN)

Center Wavelength	Ref. Ratio	Rotation Angle	Faraday	Input Fiber	Output Fiber	Average Power	Peak Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
975-975nm	01-1%	90= 90degree	Position	S=SM Fiber	S=SM Fiber	03=300mW	01=100W	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	1= 1kW	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	5=5kW	R=25/250 DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1000=1000nm	80=80%					10=10W	20=20kW	Blank for HI1060 or PM980 Fiber	3= 3mm Cable	20=2.0m	SC/APC=SC/APC Connector

