

## 2000nm Partial Reflective Faraday Mirror for Pulse Power

### 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	1900, 1950, 2000, 2050	
Bandwidth	nm	+/-15	
Excess Loss	dB	≤1.0	
Nominal Reflective Ratio	%	1±0.5, 2±0.4, 5±1, 10±2, 50±8, 80, 90	
Faraday Rotation Angle (Transmission)	Deg	22.5, 45, 90	
Rotation Angle Tolerance (CW. 23°C)	Deg	≤+/-3	
Faraday Position	Forward Type	-	Faraday is before the Mirror
	Backward Type	-	Faraday is after the Mirror
PDL (for SM Fiber Type)	dB	≤0.15	
Extinction Ratio (for PM Fiber Type)	dB	≥18	
Fiber Type	SM Fiber Type	-	SMF-28 Fiber or SM1950 Fiber (V) 10/130um DC Fiber (O) or 25/250um DC Fiber (R)
	PM Fiber Type	-	PM1550 Panda Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber (O) 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	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)12x(H)10 (>10W); (L)120x(W)12x(H)10 (≤10W)

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.3dB 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.

### ORDERING INFORMATION (PN)

**FFPM-NNNN-NN (NN) - (C) C C -H NN P NN -(C) (C) C NN -CC/CCC**

Center Wavelength	Ref. Ratio	Rotation Angle	Faraday Position	Input Fiber	Output Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1900-1900nm	01-1%	225-22.5degree	Position	S-SM Fiber	S-SM Fiber	03-300mW	01-100W	M-Metal Box	V-SM1950 or PM1950 Fiber	B-Bare Fiber	05-0.5m	N-Without Connector
1950-1950nm	10-10%	90-90degree	B-Backward	P-PM Fiber	P-PM Fiber	1-1W	1-1kW	Blank for SST	0-10/130 DC or PMDC Fiber	L-Loose Tube	10-1.0m	FC/APC=FC/APC Connector
2000-2000nm	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
2050-2050nm	80-80%					10-10W	10-10kW		Blank for SMF-28 Fiber or PM1550 Fiber	3-3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector