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	1310, 1480, 1550, 1590
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 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 25/250um DC Fiber (R) or 25/300um DC Fiber (G)
	PM Fiber Type	-	PM1310/1550 Panda Fiber or 10/125um PMDC Fiber (O) 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)
Fiber Tensile Load		N	5
Max. Average Optical Power		W	0.3, 0.5, 1, 2, 3, 5, 10
Max. Peak Power for pulse		kW	0.1, 1, 2, 3, 5, 10, 15, 20
Operating Temperature		°C	0~70
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)120x(W)12x(H)10

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
1310=1310nm	01=1%	225=22.5degree	*Blank* for Forward	S=SM Fiber	S=SM Fiber	03=300mW	01=100W	M=Metal Box	O=10/130DC	B= Bare Fiber	05=0.5m	N=Without Connector
1480=1480nm	10=10%	90=90degree	B=Backward	P= PM Fiber	P= PM Fiber	1= 1W	1= 1kW	*Blank* for SST	or 10/125PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1550=1550nm	50=50%	*Blank* for 45degree				5= 5W	5= 5kW		T=12/130DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1590=1590nm	80=80%					10=10W	10=10kW		G=25/300 DC or PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector
									Blank for SMF-28 Fiber or PM1310/1550 Fiber			