

# 1053nm 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	1053	
Bandwidth	nm	+/-5	
Excess Loss	dB	≤4.0	
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	≤+/-4	
Faraday Position	Forward Type	-	Faraday is before the Mirror
	Backward Type	-	Faraday is after the Mirror
PDL (for SM Fiber Type)	dB	≤0.2	
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), 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	mW	100	
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
	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 0.5dB 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.

## ORDERING INFORMATION (PN)

FFPM-NNNN-NN	(NN)	- (C)	C	C-H01 PNN	-(C)	(C)	C	NN	-CC/CCC		
Center Wavelength	Ref. Ratio	Rotation Angle	Faraday	Input Fiber	Output Fiber	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1053=1053nm	01=1%	225=22.5degree	Position	S=SM Fiber	S=SM Fiber	01=100W	M=Metal Box	E=10/125 SC or PM1060L Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
	10=10%	90=90degree	B=Backward	P= PM Fiber	P= PM Fiber	1= 1kW	Blank for SST	Q=20/130 DC or PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	50=50%	Blank for 45degree	Blank for Forward			5= 5kW		R=25/250 DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	80=80%					10=10kW		Blank for HI1060 or PM980 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector