

## 2000nm Inline Faraday Rotator 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
Insertion Loss	dB	≤1.0
Faraday Rotation Angle (CW. 23°C)	Deg	22.5, 45, 90
Rotation Angle Tolerance (CW. 23°C)	Deg	≤+/-3
Return Loss	dB	≥50
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:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB 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.

### ORDERING INFORMATION (PN)

FIFR-NNNN-NN		(NN)	- (C)	C	C	-H NN	P NN	-(C)	(C)	C	NN	-CC/CCC
Center Wavelength	Rotation Angle	Input Fiber	Output Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type		
1900-1900nm	225-22.5degree	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	90-90degree	P= PM Fiber	P= PM Fiber	1= 1W	1= 1kW	Blank for SST	O=10/130 DC or PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector		
2000-2000nm	Blank for 45degree			5= 5W	5= 5kW		R=25/250 DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector		
2050-2050nm				10=10W	10=10kW		Blank for SMF-28 Fiber or PM1550 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector		