

## 1310~1590nm High Power Inline Faraday Rotator

### FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

### APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Transmitters and Fiber Lasers
- CATV Networks

### SPECIFICATIONS

Parameter	Unit	Value	
Center Wavelength ( $\lambda_c$ )	nm	1310, 1480, 1550, 1590	
Operating Wavelength Range	nm	+/-15	
Typical Insertion Loss	dB	0.6	
Max. Insertion Loss	dB	1.0	
Rotation Angle ( $\lambda_c$ , 23°C)	deg	22.5+/-1, 45+/-1, 90+/-2	
Optical Return Loss (Input/Output)	dB	50/50	
PDL (For SM Fiber)	dB	≤0.15	
Extinction Ratio (For PM Fiber)	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. Optical Power (CW)	W	1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package	Stainless Steel Tube (SST)	mm	( $\varnothing$ )5.5x35 (≤5W); ( $\varnothing$ )6.0x48 (5~10W)
Dimension	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.
  3. 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)	C	C	-HP NN	-(C)	(C)	C	NN	- CC/CCC
Center Wavelength	Rotation Angle	Input Fiber	Output Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1310-1310nm	225-22.5degree	S=SM Fiber	S=SM Fiber	1= 1W	M= Metal Box	O=10/130DC Fiber	B= Bare Fiber	05=0.5m	N= Without Connector
1480-1480nm	90=90degree	P= PM Fiber	P= PM Fiber	3= 3W	Blank for SST	T=12/130DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1550-1550nm	Blank for 45degree			10= 10W	or >10W	G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1590-1590nm				20=20W		Blank for SMF-28 Fiber or PM1310/1550 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

