

## 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, 1612, 1625, 1650	
Operating Wavelength Range	nm	+/-15	
Typical Insertion Loss	dB	0.6	
Max. Insertion Loss	dB	1.0	
Rotation Angle ( $\lambda_c$ , 23°C)	deg	45+/-1, 90+/-2	
Optical Return Loss (Input/Output)	dB	50/50	
PDL (For SM Fiber)	dB	≤0.15	
Extinction Ratio (For PM Fiber)	Standard	dB	≥18
	High ER Type	dB	≥20
Fiber Type	SM Fiber Type	-	SMF-28 Fiber or 10/130um DC Fiber (O) 10/130um DC Fiber NA=0.15 (O2) or 12/130um DC Fiber (T) 25/250um DC Fiber (R) or 25/300um DC Fiber (G)
	PM Fiber Type	-	PM1310/1550 Panda Fiber or 10/125um PMDC Fiber (O) 10/130um PMDC Fiber NA=0.15 (O2) or 12/130um PMDC Fiber (T) 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, 30, 40, 50, 60	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x <sup>L</sup> 38 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)
	Metal Box	mm	H: <sup>L</sup> 90x <sup>W</sup> 12x <sup>H</sup> 10 (>10W); M: <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 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. High ER type can only work in slow axis and fast axis is blocked.
  5. 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.
  6. Package size may be different for different fiber type, configuration and optical power.

### ORDERING INFORMATION (PN)

FIFR-NNNN - (NN)		(C)	C	C	-HPNN	-(C)	(C)	C	NN - CC/CCC	
Center Wavelength	Rotation Angle	Type	Input Fiber	Output Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1310=1310nm	90=90degree	R=High ER	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	Blank for 45degree	Blank for Standard	P= PM Fiber	P= PM Fiber	3= 3W	H=H Box	T=12/130DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1550=1550nm			F= PM Fiber/Fast Axis	F= PM Fiber/Fast Axis	10= 10W	Blank for SST	G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1650=1650nm					20=20W	or >10W	Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

or PM1310/1550 Fiber

