2000nm High Power Inline Faraday Rotator

Features

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- Low Polarization Sensitivity
- Compact Size

Applications

- Fiber Optic Amplifiers
- Sensing Systems
- Telecommunication Networks
- LAN Systems
- Research Labs

Specifications

Parameter		Unit	Value
Center Wavelength (CW)		nm	1900, 1950, 2000, 2050, 2070, 2090, 2110
Bandwidth		nm	+/-15
Insertion Loss		dB	≤1.0
Faraday Rotation Angle (CW. 23°C)		Deg	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)	Standard	dB	≥18
	High ER Type	dB	≥20
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. Optical Power (CW)		W	1, 2, 3, 5, 10, 15, 20
Operating Temperature		°C	0~50
Storage Temperature		°C	-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	Ø5.5xL38 (≤5W); Ø6.0xL50 (5~10W)
	Metal Box	mm	H: L90xW12xH10 (>10W);M: L120xW12xH10 (≤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
1900=1900nm	90=90degree	R=High ER	S=SM Fiber	S=SM Fiber	1= 1W	M=Metal Box	V=SM1950 or PM1950 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
1950= 1950nm	*Blank* for 45degree	*Blank* for Standard	P= PM Fiber	P= PM Fiber	5= 5W	H=H Box	O=10/130 DC or PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
2000= 2000nm			F= PM Fiber/Fast Axis	F= PM Fiber/Fast Axis	10=10W	*Blank* for SST	R=25/250 DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
2050= 2050nm					20= 20W	or >10W	*Blank* for SMF-28 Fiber or PM1550 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector