2000nm Inline Faraday Rotator with Phase Bias for Pulse Power

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stabilit

APPLICATIONS

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

SPECIFICATIONS

Parameter		Unit	Value
Center Wavelength (λc)		nm	1900, 1950, 2000, 2050
Operating Wavelength Range		nm	+/-15
Typical Insertion Loss		dB	0.8
Max. Insertion Loss		dB	1.6
Rotate Angle	A: FR+WP+FR	deg	90 (Backward Signal to Slow axis of Input Fiber)
(Single Transmission)	B: WP+FR	deg	45 (Backward Signal to Fast axis of Input Fiber)
Phase Bias between Forward and Backward		-	π, π/2, π/4 or specify
Optical Return Loss (Input/Output)		dB	50/50
PDL (For SM Fiber)		dB	≤0.15
Extinction Ratio	Standard	dB	≥18
(For PM Fiber)	High ER Type	dB	≥20 (Can only work in Slow Axis)
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	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤5W); (Ø)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.

4. Forward/backward signals transmit through fast axis/slow axis of a waveplate induces the phase bias.

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.

ORDERING INFORMATION (PN)

FRPB-NNNN- C N (C) C C -H NN P NN -(C) (C) C NN - CC/CCC

Center Wavelength 1900=1900nm; 1950= 1950nm; 2000= 2000nm; 2050= 2050nm

Rotate Angle A=90; B=45

Phase Bias Type 1=π; 2=π/2; 4=π/4

Input Fiber R=High ER; *Blank* for Standard

Output Fiber S=SM Fiber; P= PM Fiber

Average Power 03=300mW; 1= 1W; 10= 10W; 20=20W

Peak Power 01=100W; 1= 1kW; 5= 5kW; 20=20kW

Package M=Metal Box; *Blank* for SST or >10W

Fiber Type V=SM1950 or PM1950 Fiber; O=10/130 DC or PMDC Fiber; R=25/250 DC or PMDC Fiber; *Blank* for SMF-28 Fiber or PM1550 Fiber

Fiber Sleeve B=Bare Fiber; L= Loose Tube; 2= 2mm Cable; 3= 3mm Cable

Fiber Length 05=0.5m; 10=1.0m; 15=1.5m; 20=2.0m

Connector Type N=Without Connector; FC/APC=FC/APC Connector; LC/PC=LC/PC Connector; SC/UPC=SC/UPC Connector