

975-1000nm High Power Inline Faraday Rotator with Phase Bias

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FEATURES

APPLICATIONS

- High Isolation 0
- Low Insertion Loss 0
- **Epoxy-Free Optical Path** 0
- Low Polarization Sensitivity 0
- Compact Size 0

LAN Systems 0 **Research Labs** 0

Fiber Optic Amplifiers

Telecommunication Networks

Sensing Systems

SPECIFICATIONS

Parameter		Unit	Value			
Center Wavelength (CW)			975, 980, 990, 1000			
Bandwidth		nm	+/-10			
Insertion Loss (Typ.)		dB	0.8			
Insertion Loss (Max.)		dB	1.5			
Rotate Angle (Single Transmission)	A: FR+WP+FR	deg	90 (Backward Signal to Slow axis of Input Fiber)			
	B: WP+FR	deg	45 (Backward Signal to Fast axis of Input Fiber)			
	C: PBS+FR+WP+MR	deg	90 (Backward Signal to Slow axis of Input Fiber)			
Phase Bias between Forw	ard and Backward	-	п, п/2, п/4 or specify			
Return Loss		dB	≥50			
PDL (for SM Fiber Type)		dB	≤0.20			
Extinction Ratio	Standard	dB	≥18			
(for PM Fiber Type)	High ER Type	dB	≥20 (Can only work in Slow Axis)			
	SM Fiber Type	-	HI1060 Fiber or 10/125um SC Fiber (E)			
Fiber Type			10/125um DC Fiber (<mark>O</mark>), 15/130um DC Fiber (W)			
			20/130um DC Fiber (Q) or 25/250um DC Fiber (R)			
riber rype	PM Fiber Type	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)			
			10/125um PMDC Fiber (O) or 15/130um PMDC Fiber (W)			
			20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)			
Fiber Tensile Load		N	5			
Max. Optical Power (CW, Forward+Backward)			0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50			
Operating Temperature		°C	0~50			
Storage Temperature		°C	-20~75			

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.5dB 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.

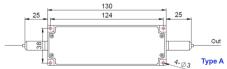
4. Forward/backward signals transmit through fast axis/slow axis of a waveplate induces the phase bias.

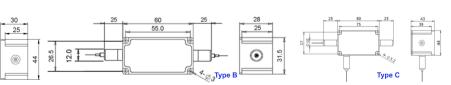
5. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of

Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

6. Package size may be different for difference optical power.

DIMENSION DRAWING





Compliant

ORDERING INFORM	ATION	(PN)							
FRPB-NNNN- C	Ν	(C)	С	С	-HPNN	-(<mark>C</mark>)	С	NN	-CC/CCC
Center Wavelength Rotate Angle	Phase Bias	Туре	Input Fiber	Output Fiber	Optical Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
975=975nm A=90] =π	<mark>R=</mark> High ER	<mark>S=</mark> SM Fiber	<mark>S=</mark> SM Fiber	<mark>1-</mark> 1W	E=10/125 SC or PM1060L Fiber	<mark>B=</mark> Bare Fiber	<mark>05</mark> =0.5m	N=Without Connector
980=980nm B=45	<mark>2</mark> =π/2	<i>Blank</i> for	P= PM Fiber	P= PM Fiber	<mark>5</mark> =5W	Q= 20/130 DC or PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
990-990nm C-90	<mark>4=</mark> π/4	Standard			<mark>10-</mark> 10W	R=25/250 DC or PMDC Fiber	<mark>2=</mark> 2mm Cable	<mark>15</mark> =1.5m	LC/PC=LC/PC Connector
1000-1000nm					<mark>50</mark> =50W	<i>Blank</i> for H11060 or PM980 Fiber	<mark>3=</mark> 3mm Cable	<mark>20</mark> =2.0m	SC/UPC-SC/UPC Connector