

1020-1150nm High Power Inline Faraday Rotator for Pulse Power

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	1020, 1030, 1040, 1053, 1064	
		1070, 1080, 1092, 1103, 1120, 1150	
Bandwidth	nm	+/-10	
Insertion Loss (Typ.)	dB	0.8	
Insertion Loss (Max.)	dB	1.5	
Faraday Rotation Angle (CW, 23°C)	Deg	45, 90	
Rotation Angle Tolerance (CW, 23°C)	Deg	≤ +/-5	
Return Loss	dB	≥50	
PDL (for SM Fiber Type)	dB	≤0.20	
Extinction Ratio (For PM Fiber)	Standard	dB	≥18
	High ER Type	dB	≥20
Fiber Type	SM Fiber Type	-	HI1060 Fiber or 10/125um SC Fiber (E)
		-	10/125um DC Fiber (O), 15/130um DC Fiber (W)
		-	20/130um DC Fiber (Q) or 25/250um DC Fiber (R)
	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. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100	
Max. Peak Power for Pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
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.

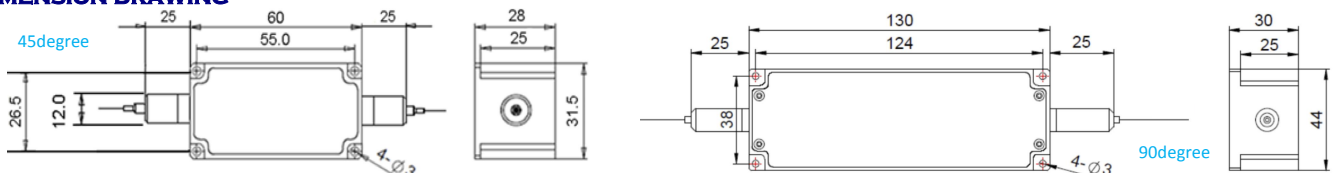
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4. 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.

DIMENSION DRAWING



ORDERING INFORMATION (PN)

Center Wavelength	Rotation Angle	Type	Input Fiber	Output Fiber	Average Power	Peak Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1030-1030nm	90= 90degree	R=High ER	S=SM Fiber	S=SM Fiber	03=300mW	01=100W	E=10/125 SC or PM1060L Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
1064-1064nm	Blank for 45degree	Blank for Standard	P= PM Fiber	P= PM Fiber	1= 1W	1= 1kW	Q=20/130 DC or PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1092-1092nm			F= PM Fiber/Fast Axis	F= PM Fiber/Fast Axis	5=5W	5=5kW	R=25/250 DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1120-1120nm					10=10W	20=20kW	Blank for HI1060 or PM980 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

