

1020-1150nm High Power Inline Faraday Rotator

FEATURES

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

APPLICATIONS

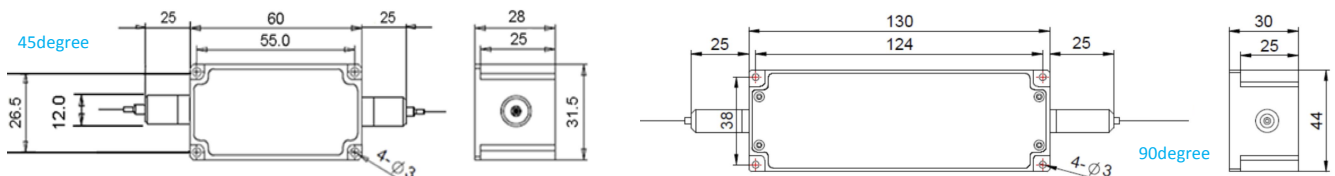
- Fiber Optic Amplifiers
- Sensing Systems
- Telecommunication Networks
- LAN Systems
- Research Labs

SPECIFICATIONS

Parameter	Unit	Value	
Center Wavelength (CW)	nm	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. Optical Power (CW)	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-20~75	

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 - High ER type can only work in slow axis and fast axis is blocked.
 - 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.
 - Package size may be different for different fiber type, configuration and optical power.

DIMENSION DRAWING



ORDERING INFORMATION (PN)

FIFR - NNNN - NN (C) C C - HP NN -(C) C NN -CC/CCC	Center Wavelength	Rotation Angle	Type	Input Fiber	Output Fiber	Optical Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1030-1030nm	90= 90degree	R=High ER	S=SM Fiber	S=SM Fiber	1= 1W	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	5=5W	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	10=10W	R=25/250 DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
1120-1120nm					20=20W	Blank for HI1060 or PM980 Fiber	3= 3mm Cable	20=2.0m	SC/UFC=SC/UFC Connector	

