

# 1020-1120nm High Power Inline Faraday Rotator for Pulse Power

## FEATURES

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

## APPLICATIONS

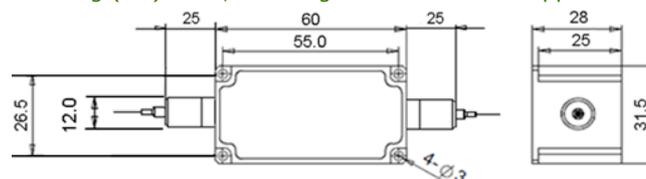
- Fiber Optic Amplifiers
- Sensing Systems
- Telecommunication Networks
- LAN Systems

## SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (CW)	nm	1020, 1030, 1040, 1053, 1064
		1070, 1080, 1092, 1103, 1120
Bandwidth	nm	+/-10
Insertion Loss (Typ.)	dB	0.8
Insertion Loss (Max.)	dB	1.5
Faraday Rotation Angle (CW, 23°C)	Deg	22.5, 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 Type)	dB	≥18
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
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. 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.

## DIMENSION DRAWING



## ORDERING INFORMATION (PN)

FIFR-NNNN	- NN	- C	C	-H NN	P NN	-(C)	C	NN	- CC/CCC
Center Wavelength	Rotation Angle	Input Fiber	Output Fiber	Average Power	Peak Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1030-1030nm	90= 90degree	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	225=22.5degree	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	Blank for 45degree			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