

## 900-960nm High Power Inline Faraday Rotator

### FEATURES

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

### APPLICATIONS

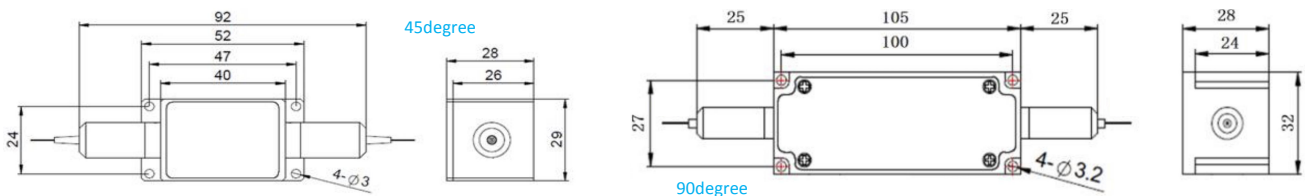
- Fiber Optic Amplifiers
- Sensing Systems
- Telecommunication Networks
- LAN Systems
- Research Labs

### SPECIFICATIONS

Parameter	Unit	Value		
Center Wavelength (CW)	nm	915, 930, 940, 950		
Bandwidth	nm	+/-10		
Insertion Loss (Typ.)	dB	0.9		
Insertion Loss (Max.)	dB	1.8		
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	-	HI780 Fiber, 780-HP Fiber(7), 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	-	PM850 Fiber, PM780-HP Fiber(7), PM980 Fiber or PM1060L Fiber (E) 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 0.7dB 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- <b>NNN</b> - <b>NN</b> ( <b>C</b> ) <b>C</b> <b>C</b> - <b>HPNN</b> -( <b>C</b> ) <b>C</b> <b>NN</b> - <b>CC/CCC</b>	Center Wavelength	Rotation Angle	Type	Input Fiber	Output Fiber	Optical Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
915-915nm 90= 90degree R=High ER S=SM Fiber S=SM Fiber 1= 1W H=HI1060 or PM980 Fiber B= Bare Fiber 05=0.5m N=Without Connector	915-915nm	90= 90degree	R=High ER	S=SM Fiber	S=SM Fiber	1= 1W	H=HI1060 or PM980 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
930-930nm Blank for 45degree Blank for Standard P= PM Fiber P= PM Fiber 5=5W E=10/125 SC or PM1060L Fiber L= Loose Tube 10=1.0m FC/APC=FC/APC Connector	930-930nm	Blank for 45degree	Blank for Standard	P= PM Fiber	P= PM Fiber	5=5W	E=10/125 SC or PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
940-940nm 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	940-940nm			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
950-950nm Blank for HI780 or PM850 Fiber 20=20W Blank for HI780 or PM850 Fiber 3= 3mm Cable 20=2.0m SC/UPC=SC/UPC Connector	950-950nm			Blank for HI780 or PM850 Fiber	Blank for HI780 or PM850 Fiber	20=20W	Blank for HI780 or PM850 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

