

975-1000nm High Power Inline Faraday Rotator for Pulse Power

FEATURES

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

APPLICATIONS

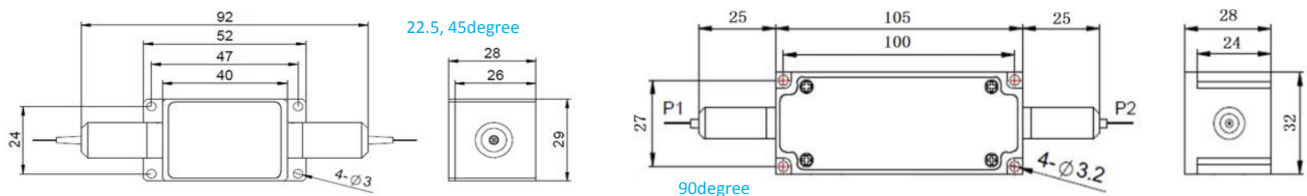
- Fiber Optic Amplifiers
- Sensing Systems
- Telecommunication Networks
- LAN Systems
- Research Labs

SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (CW)	nm	975, 980, 990, 1000
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:**
- 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.
 - 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 dimensions may be different for different optical power, fiber type and configuration.

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	
975-975nm	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	
980=980nm	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	
990=990nm	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	
1000=1000nm				10=10W	20=20kW	Blank for HI1060 or PM980 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	