

# 1092nm 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	1092
Bandwidth	nm	+/-5
Insertion Loss	dB	≤1.9
Faraday Rotation Angle (CW. 23°C)	Deg	22.5, 45, 90
Rotation Angle Tolerance (CW. 23°C)	Deg	≤ +/-6
Return Loss	dB	≥50
PDL (for SM Fiber Type)	dB	≤0.25
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), 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	mW	300
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20
Operating Temperature	°C	0~50
Storage Temperature	°C	-40~85
Package Dimension	Stainless Steel Tube (SST)	mm (Ø)5.5x35
	Metal Box	mm (L)120x(W)12x(H)10

- 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.

## ORDERING INFORMATION (PN)

<b>FIFR-NNNN</b>	-	<b>NN</b>	-	<b>C</b>	<b>C-H03PNN</b>	-	<b>(C)</b>	<b>(C)</b>	<b>C</b>	<b>NN</b>	-	<b>CC/CCC</b>
<i>Center Wavelength</i>		<i>Rotation Angle</i>		<i>Input Fiber</i>	<i>Output Fiber</i>	<i>Peak Power</i>	<i>Package</i>	<i>Fiber Type</i>	<i>Fiber Sleeve</i>	<i>Fiber Length</i>		<i>Connector Type</i>
1092=1092nm		225=22.5degree		S=SM Fiber	S=SM Fiber	01=100W	M=Metal Box	E=10/125 SC or PM1060L Fiber	B= Bare Fiber	05=0.5m		N=Without Connector
		90=90degree		P= PM Fiber	P= PM Fiber	1= 1kW	Blank for SST	Q=20/130 DC or PMDC Fiber	L= Loose Tube	10=1.0m		FC/APC=FC/APC Connector
		Blank for 45degree				5= 5kW		R=25/250 DC or PMDC Fiber	2= 2mm Cable	15=1.5m		LC/PC=LC/PC Connector
						10=10kW		Blank for HI1060 or PM980 Fiber	3= 3mm Cable	20=2.0m		SC/UPC=SC/UPC Connector