

1070nm Inline Faraday Rotator

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 | 1070 | |
| 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 | ≤ +/-4 | |
| Return Loss | dB | ≥50 | |
| PDL (for SM Fiber Type) | dB | ≤0.2 | |
| 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. Optical Power (CW) | mW | 300 | |
| 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. 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)

| | | | | | | | | | | | |
|--------------------------|---|-----------------------|---|--------------------|---------------------|---|----------------|---------------------------------|---------------------|---------------------|-------------------------|
| FIFR-NNNN | - | NN | - | C | C | - | (C) | C | NN | - | CC/CCC |
| <i>Center Wavelength</i> | | <i>Rotation Angle</i> | | <i>Input Fiber</i> | <i>Output Fiber</i> | | <i>Package</i> | <i>Fiber Type</i> | <i>Fiber Sleeve</i> | <i>Fiber Length</i> | <i>Connector Type</i> |
| 1070=1070nm | | 225=22.5degree | | S=SM Fiber | S=SM Fiber | | 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 | | Blank for SST | Q=20/130 DC or PMDC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | | Blank for 45degree | | | | | | R=25/250 DC or PMDC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | | | | | | | | Blank for HI1060 or PM980 Fiber | 3= 3mm Cable | 20=2.0m | SC/UFC=SC/UFC Connector |