

2000nm 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 | 1900, 1950, 2000, 2050, 2070, 2090, 2110 | |
| Bandwidth | nm | +/-15 | |
| Insertion Loss | dB | ≤1.0 | |
| Faraday Rotation Angle (CW. 23°C) | Deg | 45, 90 | |
| Rotation Angle Tolerance (CW. 23°C) | Deg | ≤ +/-3 | |
| Return Loss | dB | ≥50 | |
| PDL (for SM Fiber Type) | dB | ≤0.15 | |
| Extinction Ratio (For PM Fiber) | Standard | dB | ≥18 |
| | High ER Type | dB | ≥20 |
| Fiber Type | SM Fiber Type | - | SMF-28 Fiber or SM1950 Fiber (V) 10/130um DC Fiber (O) or 25/250um DC Fiber (R) |
| | PM Fiber Type | - | PM1550 Panda Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber (O) 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 | |
| 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 | ∅5.5x ^L 38 (≤5W); ∅6.0x ^L 50 (5~10W) |
| | Metal Box | mm | H: ^L 90x ^W 12x ^H 10 (>10W); M: ^L 120x ^W 12x ^H 10 (≤10W) |

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.3dB 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.

ORDERING INFORMATION (PN)

| FIR-NNNN- | NN | (C) | C | C | -H NN | PNN | -(C) | (C) | C | NN | -CC/CCC |
|-------------------|--------------------|--------------------|-----------------------|-----------------------|---------------|------------|---------------|---------------------------|---------------|--------------|-------------------------|
| Center Wavelength | Rotation Angle | Type | Input Fiber | Output Fiber | Average Power | Peak Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
| 1900-1900nm | 90-90degree | R-High ER | S-SM Fiber | S-SM Fiber | 03-300mW | 01-100W | M-Metal Box | V-SM1950 or PM1950 Fiber | B- Bare Fiber | 05-0.5m | N-Without Connector |
| 1950- 1950nm | Blank for 45degree | Blank for Standard | P- PM Fiber | P- PM Fiber | 1- 1W | 1- 1kW | H-H Box | O-10/130 DC or PMDC Fiber | L- Loose Tube | 10-1.0m | FC/APC-FC/APC Connector |
| 2000- 2000nm | | | F- PM Fiber/Fast Axis | F- PM Fiber/Fast Axis | 5- 5W | 5- 5kW | Blank for SST | R-25/250 DC or PMDC Fiber | 2- 2mm Cable | 15-1.5m | LC/PC-LC/PC Connector |
| 2050- 2050nm | | | | | 10-10W | 10-10kW | or >10W | Blank for SMF-28 Fiber | 3- 3mm Cable | 20-2.0m | SC/UPC-SC/UPC Connector |

or PM1550 Fiber