

1053nm 3-port PM Optical Circulator for Pulse Power



FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Dispersion Compensation
- Light Routing

SPECIFICATIONS

| Parameter | | Unit | Value |
|-------------------------------|----------------------------|------|--|
| Center Wavelength | | nm | 1053 |
| Bandwidth | | nm | +/-5 |
| Insertion Loss (1→2, 2→3) | (Typ.) | dB | 2.4 |
| | (Max.) | dB | 3.2 |
| Isolation@ 23°C (3→2, 2→1) | (Typ.) | dB | 25 |
| | (Min.) | dB | 20 |
| Cross Talk | | dB | ≥50 |
| Optical Return Loss | | dB | ≥50 |
| Extinction Ratio | (Typ.) | dB | 20 |
| | (Min.) | dB | 18 |
| Polarization Alignment | | - | Slow Axis |
| 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 | 200 |
| 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. The devices can only work in slow axis and fast axis is blocked.
 4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 5. 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)

| | | | | | | | | | | |
|--------------------------|----------------------|-------------------|----------------|---------------------|---------------------|---------------------|-------------------------|----------|-----------|-----------------|
| FPCR- | NNNN | -3H | NN | P | NN | - (C) | C | C | NN | - CC/CCC |
| <i>Center Wavelength</i> | <i>Average Power</i> | <i>Peak Power</i> | <i>Package</i> | <i>Fiber Type</i> | <i>Fiber Sleeve</i> | <i>Fiber Length</i> | <i>Connector Type</i> | | | |
| 1053=1053nm | 02=200mW | 01=100W | M=Metal Box | 2=PM980Fiber | B= Bare Fiber | 05=0.5m | N=Without Connector | | | |
| | | 1=1kW | Blank for SST | E=PM1060L Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector | | | |
| | | 5=5kW | | Q=20/130 PMDC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector | | | |
| | | 10=10kW | | R=25/250 PMDC Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector | | | |