# 1900~1970nm Polarization Insensitive 3-port Optical Circulator

## 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

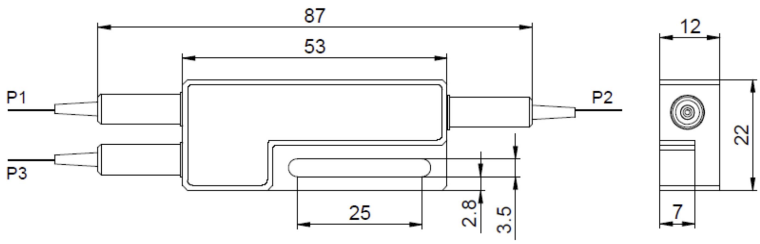
| Parameter | | Unit | Value | |
|---|---|---|---|---|
| Center Wavelength (λc) | | nm | 1900 | 1930, 1950, 1970 |
| Bandwidth | | nm | +/-10 | +/-20 |
| Insertion Loss@23°C | (Typ.) | dB | 1.5 | |
| | (Max.) | dB | 1.9 | |
| Isolation@23°C | (Typ.) | dB | 16 | |
| | (Min.) | dB | 14 | |
| PDL | | dB | ≤0.2 | |
| Optical Return Loss | | dB | ≥45 | |
| Cross Talk | | dB | ≥40 | |
| Fiber Type | | - | SMF-28 Fiber or SM1950 Fiber (V)<br>10/130um DC Fiber (O) or 25/250um DC Fiber (R) | |
| Fiber Tensile Load | | N | 5 | |
| Maximum Optical Power (CW) | | mW | 300 | |
| Operating Temperature | | °C | 0~50 | |
| Storage Temperature | | °C | -40~85 | |

**Note:** 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.

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.

## PACKAGE DIMENSION




## ORDERING INFORMATION (PN)

**FCIR- NNNN -3 (C) C NN - CC/CCC**

| Center Wavelength | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|---|---|---|---|---|
| 1900= 1900nm | V=SM1950 Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| 1930= 1930nm | O=10/130 DC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| 1950= 1950nm | R=25/250 DC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| 1970= 1970nm | Blank for SMF-28 Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |