



## Polarization Insensitive Optical Circulator (High Reliability)

### Description

The Optical Circulator is a compact, high performance lightwave component that routes incoming signals from Port 1 to Port 2, and incoming Port 2 signals to Port 3. The component provides high isolation, low insertion loss, low PDL, low PMD and excellent environmental stability.

### Key Features

- Optical circulator
- High Reliability

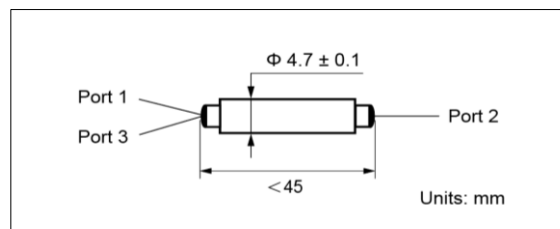
### Applications

- Submarine optical fiber communication

### Specifications

| Parameter                                                        | Unit | Value                         |
|------------------------------------------------------------------|------|-------------------------------|
| Center Wavelength ( $\lambda_c$ )                                | nm   | 1550                          |
| Operating Wavelength Range                                       | nm   | 1530 - 1565                   |
| P1-P2, Max. Insertion Loss, $\lambda_c$ , 23 °C                  | dB   | 0.7                           |
| P2-P3, Max. Insertion Loss, - 5 to + 75 °C, 1530 - 1565 nm       | dB   | 0.9                           |
| P2-P1, Min. Isolation, $\lambda_c$ , 23 °C                       | dB   | 50                            |
| P3-P2, Min. Isolation, - 5 to + 75 °C, 1530 - 1565 nm            | dB   | 40                            |
| Min. Crosstalk                                                   | dB   | 50                            |
| Min. Return Loss                                                 | dB   | 50                            |
| Max. Polarization Dependent Loss, - 5 to + 75 °C, 1530 - 1565 nm | dB   | 0.15                          |
| Max. Polarization Mode Dispersion                                | ps   | 0.1                           |
| Max. Optical Power                                               | W    | 1                             |
| Max. Tensile Load                                                | N    | 5                             |
| Fiber Type                                                       |      | SMF - 28 Ultra 200 kpsi fiber |
| Operating Temperature                                            | °C   | - 5 to + 75                   |
| Storage Temperature                                              | °C   | - 40 to + 85                  |

### Package Dimensions



### Ordering Information

FCIR-①①-②-③-④-SUB

①①: Wavelength  
55 - 1550 nm

②: Connector Type  
None

③: Fiber Jacket  
B - 250  $\mu$ m Bare Fiber

④: Fiber Length  
1 - 1.0 m  
S - Specify