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# Polarization Independent Optical Circulators

Fiber Optic Circulator is a non-reciprocal device that redirects light from port to port in one direction. The device is designed for use in WDM systems, optical amplifiers and sensor applications. The component features high power, high isolation, high return loss, and excellent environmental stability.

## Types

- 4 Ports
- High Power (300mW)
- 1310/1550nm Window



## Applications

- WDM systems
- Dispersion Compensation
- Sensor Applications
- Optical Amplifiers
- OTDR Applications

## Features

- High Stability and Reliability
- High Isolation
- High Return Loss
- Low Insertion Loss
- Low Polarization Dependent Loss
- Low Polarization Mode Dispersion



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## SPECIFICATIONS

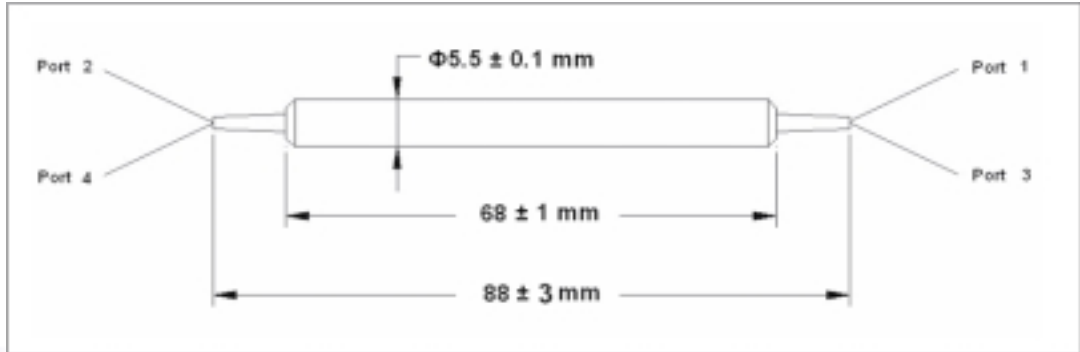
### Polarization Independent Optical Circulators (1310 or 1550nm)

| Parameter                                | 4 ports          | Units |
|--|------------------|-------|
| Center Wavelength                        | 1310 or 1550     | nm    |
| Operating Wavelength Range               | +/-30            | nm    |
| Transmitting Direction                   | 1->2, 2->3, 3->4 | --    |
| Max. Insertion Loss from Port 1->2       | 0.85             | dB    |
| Max. Insertion Loss from Port 2->3, 3->4 | 1.10             | dB    |
| Min. Isolation, 23°C                     | 40               | dB    |
| Min. Crosstalk                           | 50               | dB    |
| Min. Return Loss                         | 50               | dB    |
| Max. Polarization Dependent Loss         | 0.2              | dB    |
| Max. Polarization Mode Dispersion        | 0.1              | ps    |
| Max. Optical Power (Continuous Wave)     | 300              | mW    |
| Max. Tensile Load                        | 5                | N     |
| Fiber Type                               | SMF-28 Fiber     | --    |
| Operating Temperature                    | 0 to +70         | °C    |
| Storage Temperature                      | -40 to +85       | °C    |
| Package Dimensions                       | <= dia 5.5 x 68  | mm    |

\* 1L is 0.3 dB higher and RL is 5 dB lower for connector added.

\* Above specifications are for device without connectors.

### Package Dimensions



## ORDERING CODES

OLCIR - I - [ ] - [ ] - [ ] - [ ] - [ ]

| Port    | Code |
|---------|------|
| 4 Ports | 4    |

| Handling Power | Code |
|----------------|------|
| 500mW          | 500  |

| Wavelength   | Code |
|--------------|------|
| 1300-1500 nm | 135  |

| Cable Diameter | Code |
|----------------|------|
| 250 um         | 25   |
| 900 um         | 90   |

| Connector Type | Code |
|----------------|------|
| No Connector   | NC   |
| FC/PC          | FP   |
| SC/PC          | SP   |
| FC/APC         | FA   |
| SC/APC         | SA   |
| LC/PC          | LP   |
| MU/PC          | MP   |
| Others         | XX   |

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