

## Polarization Insensitive Optical Circulator

### Features

- Wide Band High Isolation
- Low Insertion loss
- Low PDL
- High Stability and High Reliability
- Epoxy Free Optical Path
- Compact In-line Package

### Applications

- Optical Amplifiers
- Metro Area Network
- Wavelength Add/Drop
- Dispersion Compensation
- Bi-Direction Communication



### Specification

| Parameter   | Specification                       |        |        |             |
|---|-------------------------------------|--------|--------|-------------|
| Configuration   | Port 1 to Port2 and Port2 to Port 3 |        |        |             |
| Signal central wavelength λ C   | 1310 band                           | C band | L band | C+L band    |
| Operating Wavelength (nm)   | 1310±30nm or 1550±30nm or 1585±30nm |        |        | 1520-1620nm |
| Typical Peak Isolation (dB)   | > 50                                |        |        | > 40        |
| Minimum Isolation (dB)<br>(Over Temperature and Wavelength Range,SOP)     | > 35                                |        |        | > 25        |
| Typical Insertion Loss (dB)   | < 0.6                               |        |        | < 0.9       |
| Maximum Insertion Los (dB)<br>(Over Temperature and Wavelength Range,SOP) | < 0.8                               |        |        | < 1.0       |
| Return Loss -All Port (dB)  | > 50                                |        |        |             |
| Cross Talk-Port1 to 3 or Port 3 to 1 (dB)                                 | > 50                                |        |        |             |
| PDL (dB)  | < 0.15                              |        |        |             |
| Polarization Mode Dispersion (ps)   | < 0.1                               |        |        |             |
| Power Handling (mW)   | 300                                 |        |        |             |
| Tensile Load (N)  | 5                                   |        |        |             |
| Operating Temperature (°C)  | 0 ~ +70                             |        |        |             |
| Storage Temperature (°C)  | -40 ~ +85                           |        |        |             |
| Package Dimension (mm)  | 5.5xL50                             |        |        |             |

Note: 1. All Specifications without connector.

2. Add an additional 0.2dB loss per connector.

### Ordering Information

| GCIR            | <input type="checkbox"/> | <input type="checkbox"/>                             | <input type="checkbox"/> | <input type="checkbox"/>       | <input type="checkbox"/>            | <input type="checkbox"/>  |
|-----------------|--------------------------|--|--------------------------|--------------------------------|-------------------------------------|---|
| Circulator Type | Port                     | Wavelength   | Grade                    | Pigtail Style                  | Fiber Length                        | In/Out Connector  |
|                 | 3=3 Port                 | 13=1310nm<br>15=1550nm<br>85=1585nm<br>C+L=1520-1620 | P=P Grade                | 0=Bare Fiber<br>1=900um Jacket | 1=1 Meter<br>2=2 Meter<br>S=Specify | N=None<br>1=FC/APC<br>2=FC/PC<br>3=SC/APC<br>4=SC/PC<br>5=ST<br>6=LC<br>S=Special |

**Dimension**
