

## 1260-1650nm 3-port Polarization Insensitive Optical Circulator

1260-1650nm 3-port Polarization Insensitive Optical Circulator is a fiber passive component built with SM fiber, which can change signal light transmission path, the signal can be delivered from Port 1 to Port 2, the other signal light from Port 2 to Port 3, the high isolation can block the back reflection light. It's widely used in WDM System, Fiber Optic Sensor and Coherent Detecting field. High Power type is available upon request.

### Application:

Fiber Optic Sensor  
CWDM, DWDM System  
Coherent Detecting  
Fiber Optic Amplifier

### Features:

Low PDL  
High Isolation  
Low Insertion Loss  
High Reliability



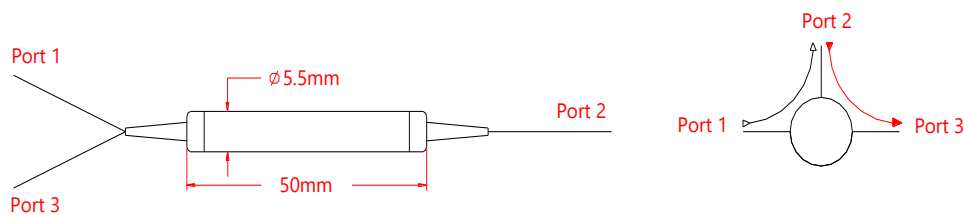
### Specification:

| Parameter                                 | Symbol    | Value         |      |      | Unit |
|-------------------------------------------|-----------|---------------|------|------|------|
| Center Wavelength                         | $\lambda$ | 1310          | 1550 | 1625 | nm   |
| Bandwidth                                 | BW        | 1260-1650     |      |      | nm   |
| Typ. Insertion Loss (Port 1 to 2, 2 to 3) | IL        | 3.5           | 0.8  | 1.2  | dB   |
| Max. Insertion Loss (Port 1 to 2, 2 to 3) | IL        | 4.3           | 1.2  | 1.6  | dB   |
| Typ. Isolation (Port 2 to 1, 3 to 2)      | Iso       | 20            | 42   | 32   | dB   |
| Min. Isolation (Port 2 to 1, 3 to 2)      | Iso       | 16            | 35   | 27   | dB   |
| Max. Polarization Dependent Loss          | PDL       | 0.3           | 0.2  | 0.25 | dB   |
| Max. Polarization Mode Dispersion         | PMD       | 0.3           |      |      | ps   |
| Min. Cross Talk                           | Ct        | 45            |      |      | dB   |
| Min. Directivity                          |           | 50            |      |      | dB   |
| Min. Return Loss                          | RL        | 45            |      |      | dB   |
| Max. Optical Power (CW)                   | P         | 500           |      |      | mW   |
| Max. Tensile Load                         |           | 5             |      |      | N    |
| Fiber Type                                |           | SMF-28e fiber |      |      | -    |
| Operating Temperature                     | T         | 0~70          |      |      | °C   |
| Storage Temperature                       | T         | -40~85        |      |      | °C   |
| Package Dimension                         |           | Φ5.5×L50      |      |      | mm   |

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

### Drawing:



### Ordering Information (Part Number):

PICIR-WW-P-J-LL-CC

| WW                          | P           | J                                            | LL                                                               | CC                                                                                                                  |
|-----------------------------|-------------|----------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Wavelength                  | Port        | Fiber Jacket                                 | Fiber Length                                                     | Connector                                                                                                           |
| AB - All Band (1260-1650nm) | 3 - 3 Ports | B - 250um Bare Fiber<br>9 - 900um Loose Tube | 05 - 0.5m<br>10 - 1.0m<br>15 - 1.5m<br>20 - 2.0m<br>SS - Specify | NE - None<br>FA - FC/APC<br>FU - FC/UPC<br>SA - SC/APC<br>SU - SU/APC<br>LA - LC/APC<br>LU - LC/UPC<br>SS - Specify |