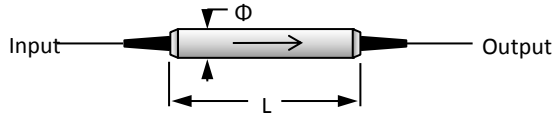


## Polarization Independent Optical Fiber Isolator 1053nm

The 1050 1053nm Polarization Independent (Polarization Insensitive) Optical Fiber Isolator is an in-line pigtailed micro-optic component allows light to be transmitted only in the forward direction while blocking the backward transmission. It features high isolation and low insertion loss. The optical isolators are commonly used to protect lasers or amplifiers against back-reflected light.



### Features

- High Isolation
- Low Insertion Loss
- High Reliability & Stability

### Applications

- Fiber Amplifier
- Fiber Laser & Sensor
- Lab & Research

### Performance Specification

| Parameter                   | Value         |            | Unit |
|-----------------------------|---------------|------------|------|
|                             | Single Stage  | Dual Stage |      |
| Stage                       | Single Stage  | Dual Stage |      |
| Center Wavelength           | 1050, 1053    |            | nm   |
| Bandwidth                   | ±5            |            | nm   |
| Typ. Insertion Loss at 23°C | 2.5           | 3.4        | dB   |
| Max. Insertion Loss at 23°C | 2.0           | 4.2        | dB   |
| Typ. Peak Isolation         | 40            | 55         | dB   |
| Min. Isolation at 23°C      | 28            | 42         | dB   |
| Max. PDL at 23°C            | 0.15          |            | dB   |
| Min. Return Loss            | 50            |            | dB   |
| Max. Optical Power (CW)     | 100           |            | mW   |
| Max. Tensile Load           | 5             |            | N    |
| Fiber Type                  | HI 1060 Fiber |            |      |
| Operating Temperature       | -5 to +70     |            | °C   |
| Storage Temperature         | -20 to +85    |            | °C   |
| Package Dimension           | Φ5.5×L35      |            | mm   |

### Note

\* For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.  
\* For lower IL 1053nm isolators, please discuss with OF-LINK.

### Ordering Information

#### PIISO-AAAA-B-C-DD-EE

| AAAA           | B                | C                    | DD           | EE           |
|----------------|------------------|----------------------|--------------|--------------|
| Wavelength     | Stage            | Fiber Jacket         | Fiber Length | Connector    |
| 1050 - 1050nm  | S - Single Stage | B - 250um Bare Tube  | 05 - 0.5m    | NE - None    |
| 1053 - 1053nm  | D - Dual Stage   | L - 900um Loose Tube | 08 - 0.8m    | FA - FC/APC  |
| SSSS - Specify |                  |                      | 10 - 1.0m    | FP - FC/PC   |
|                |                  |                      | 15 - 1.5m    | SA - SC/APC  |
|                |                  |                      | SS - Specify | SP - SC/PC   |
|                |                  |                      |              | LA - LC/APC  |
|                |                  |                      |              | LP - LC/PC   |
|                |                  |                      |              | SS - Specify |