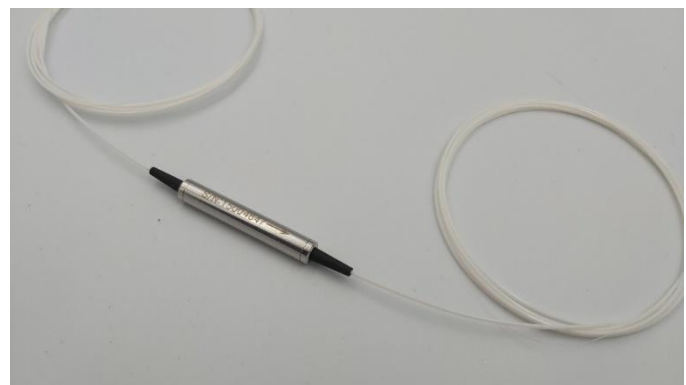


[OEPAS-ISO-100]

## Fiber Optic Isolator

### Features:

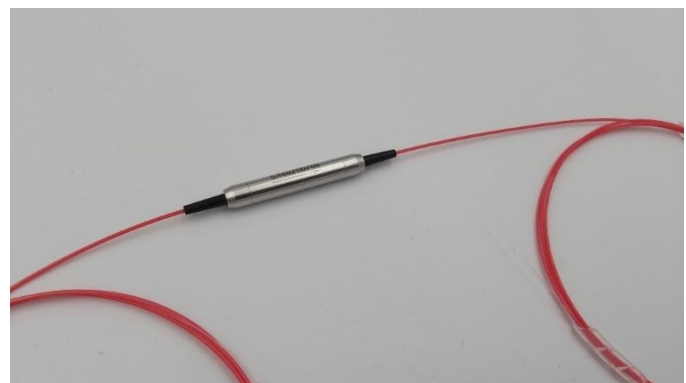
- For minimizing the optical feedback in optical system
- Fiber pigtailed with protective tubing
- Polarization independent
- Small and compact design
- SM or PM fibers versions
- Epoxy-free optical path
- High isolation, low insertion loss
- High stability, long-term reliability
- Low PDL and PMD



OEPA-ISO-100

### Applications:

- For standard applications
- For back reflection protection
- In research and development
- In production of fiber lasers and amplifiers
- EDFAs, Raman, WDM systems



OEPA-ISO-100-PM

### Product description:

The Fiber optic Isolator from O/E Land Inc. minimizes back reflection and backscattering in an optical system in reverse direction. It works with any polarization state, and it provides low polarization-dependent loss (PDL), as well as low polarization mode dispersion (PMD). The optical path is epoxy free, thereby enabling high-power applications. This Fiber optical isolator is based on metallized solder package technology and features high stability and reliability. This product meets the Telcordia GR-1221-CORE reliability standard.

Specifications:

| Parameter                          | Unit | OEPAS-ISO-100                                     |                 |                  |                  |                  |                  |                  |                  |
|------------------------------------|------|---------------------------------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Type                               |      | Fiber Optic Isolator                              |                 |                  |                  |                  |                  |                  |                  |
| Center wavelengths*                | nm   | 1030                                              | 1064            | 1310             | 1550             | 1650             | 2000             | C-Band           | L-Band           |
| Bandwidth                          | nm   | ±5                                                | ±5              | ±30              | ±30              | ±30              | ±20              | 1520-1560        | 1570-1610        |
| Insertion loss                     | dB   | <3                                                | <2              | <0.5             | <0.5             | <1.5             | <2               | <0.5             | <0.5             |
| Isolation                          | dB   | >20                                               | >30             | >30              | >30              | >25              | >15              | >30              | >30              |
| Return loss (input/output)         | dB   | >55/50                                            | >55/50          | >65/60           | >65/60           | >55/50           | >50/50           | >65/60           | >65/60           |
| Polarization dependant loss (PDL)  | dB   | <0.15                                             | <0.07           | <0.02            | <0.02            | <0.15            | <0.15            | <0.02            | <0.02            |
| Polarization mode dispersion (PMD) | ps   | <0.25                                             | <0.25           | <0.20            | <0.20            | <0.25            | <0.25            | <0.20            | <0.20            |
| Power handling (CW)                | W    | <0.1                                              | <0.5            | <3               | <3               | <3               | <2               | <3               | <3               |
| Tensile load                       | N    | <5                                                | <5              | <5               | <5               | <5               | <5               | <3               | <5               |
| Fibre type                         | -    | HI1060<br>PM980                                   | HI1060<br>PM980 | SMF-28<br>PM1550 | SMF-28<br>PM1550 | SMF-28<br>PM1550 | SM1950<br>PM1550 | SMF-28<br>PM1550 | SMF-28<br>PM1550 |
| Fibre length                       | m    | Custom; 1                                         |                 |                  |                  |                  |                  |                  |                  |
| Cable jacket size                  | mm   | Bare fiber; 0.9 tubing                            |                 |                  |                  |                  |                  |                  |                  |
| Connectors                         | -    | None; FC/PC; FC/APC; SC/PC; SC/APC; LC/PC; LC/APC |                 |                  |                  |                  |                  |                  |                  |
| Operating temperature              | °C   | -5 to +70                                         |                 |                  |                  |                  |                  |                  |                  |
| Storage temperature                | °C   | -40 to +85                                        |                 |                  |                  |                  |                  |                  |                  |
| Dimensions (LxD) (approx.)         | mm   | 35 x 5.5                                          |                 |                  |                  |                  |                  |                  |                  |

\*Custom center wavelengths also available. Specifications can vary depending on the wavelength and fiber type.

Ordering number:

| OEPAS-ISO-100-WL-B-Fiber-Conn | WL                      | B              | Fiber type                                      | Connector                                       |
|-------------------------------|-------------------------|----------------|-------------------------------------------------|-------------------------------------------------|
|                               | Wavelength (nm)         | Bandwidth (nm) | SM: Single-mode<br>PM: Polarization-maintaining | NC: Non-connectorized<br>FC/PC: FC/PC connector |
| Example:                      | OEISO-100-1550-20-SM-NC |                |                                                 |                                                 |