

# Optical Isolator

MAKE YOUR  
OPTICAL NETWORKS  
MORE RELIABLE



Optical isolators can block backreflection and backscattering in the reverse direction at any polarization state, they feature low polarization mode dispersion.  
The products are Telcordia GR-1221-CORE qualified, and RoHS compliant.

## Features

- High Stable and Reliable
- Optical Patch Epoxy-Free

## Applications

- Optical Amplifiers
- WDM systems

## Specifications

| Parameter                  | Unit | Single Stage               |         | Dual Stage |         |
|----------------------------|------|----------------------------|---------|------------|---------|
|                            |      | P grade                    | A grade | P grade    | A grade |
| Operation Wavelength       | nm   | C-band:1528~1564nm、1310±15 |         |            |         |
| Insertion Loss (max.)(23℃) | dB   | 0.5                        | 0.6     | 0.6        | 0.7     |
| TDL (max.)                 | dB   | 0.1                        | 0.15    | 0.1        | 0.15    |
| Isolation(min)(23℃)        | dB   | 30                         | 30      | 46         | 46      |
| PDL                        | dB   | 0.1                        | 0.15    | 0.1        | 0.15    |
| PMD                        | ps   | 0.2, 0.05(Low PMD)         |         | 0.05       | 0.05    |
| In/Out Return Loss         | dB   | 60/60                      | 60/55   | 60/60      | 60/60   |
| Maximum Optical Power      | mW   | 500                        |         |            |         |
| Maximum Tensile Load       | N    | 5                          |         |            |         |
| Operation Temperature      | ℃    | -10~+65                    |         |            |         |
| Storage Temperature        | ℃    | -40~+85                    |         |            |         |
| Package                    | mm   | Φ5.5×34                    |         |            |         |

Note :Insertion loss doesn't include connector loss.

## Ordering information

|                                            |   |                          |         |              |                  |                            |   |  |   |  |
|--------------------------------------------|---|--------------------------|---------|--------------|------------------|----------------------------|---|--|---|--|
| ISO                                        | — |                          | —       |              | —                |                            | — |  | — |  |
| Type                                       |   | Wavelength               | Grade   | Fiber Dia.   | Fiber Length     | Connector                  |   |  |   |  |
| PIS:polarization independent, single stage |   | 131:1310nm<br>155:1550nm | P grade | 025:Φ 0.25mm | 1:1.0m           | 00:no connector            |   |  |   |  |
| PID:polarization independent, dual stage   |   |                          | A grade | 09:Φ 0.9mm   | customer specify | FC,SC,LC,MU/<br>PC,UPC,APC |   |  |   |  |
| PISL:low polarization mode dispersion      |   |                          |         |              |                  |                            |   |  |   |  |