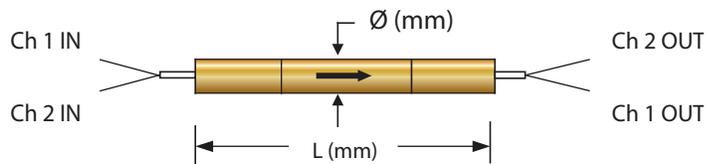


MINI SINGLE STAGE DUAL OPTICAL ISOLATOR (C OR L BAND)

Mini OISA Series

Product Description

Oplink's Mini Dual Isolator minimizes back reflection and back scattering in the reverse direction for any state of polarization. The Mini Dual Isolator works as two individual fiber isolators with excellent performance including low insertion loss, high isolation, high return loss, high Crosstalk between different channels, low polarization dependent loss (PDL) and low polarization mode dispersion (PMD) with extremely compact size. Reduced cladding fiber pigtail package option is available.



Performance Specification

| Mini OISA Series | Min. | Typical | Max. | Unit |
|--|--|------------|------|------|
| Operating Wavelength Range | C-band : 1528 ~ 1564 or L-band : 1570 ~ 1605 | | | nm |
| Isolation (@ 23 °C , over operating wavelength range, all SOP) | 28 | | | dB |
| Isolation (@ 0~70°C, over operating wavelength range, all SOP) | 21 | | | dB |
| Insertion Loss ^[1] | | 0.45 | 0.6 | dB |
| Return Loss (input/output) | 55/50 | 60/55 | | dB |
| Channel Crosstalk | 55 | | | dB |
| Polarization Dependent Loss (PDL) | | 0.1 | 0.15 | dB |
| Polarization Mode Dispersion (PMD) | | | 0.25 | ps |
| Maximum Power Handling | | | 500 | mW |
| Operating Temperature, T _{op} | | 0 to +70 | | °C |
| Storage Temperature | | -40 to +85 | | °C |
| Humidity | 0 | | 85 | % |
| Fiber Type | Corning SMF-28 or PureMode RC SMF-28 | | | |
| Fiber Jacket | Corning SMF-28 : 250µm bare fiber Pure Mode RC SMF-28 : 80µm bare fiber | | | |
| Port Color Coding | Ch.1 = Red, Ch.2 = clear | | | |
| Package Dimension ^[3] | (Ø) 3.0 x (L) 25.0 | | | mm |

Note:

[1] The maximum IL is under all states of polarization and within the full operating temperature and wavelength ranges specified.

[2] All the parameters are excluding connectors.

[3] The mechanical tolerance should be +/-0.2mm on all package dimensions unless otherwise custom specified.

Features

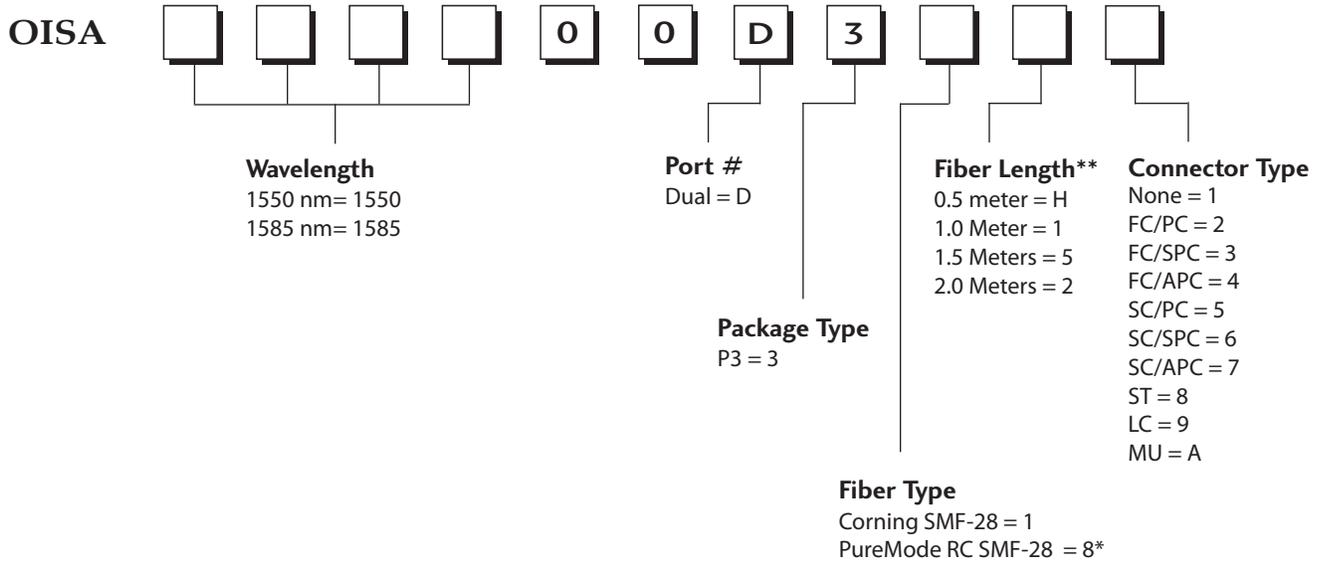
- ◆ Low Insertion Loss
- ◆ Low Polarization Dependent Loss
- ◆ High Isolation
- ◆ High Crosstalk between Different Channels
- ◆ Highly Stable & Reliable
- ◆ Epoxy-free Optical Path
- ◆ Extremely Compact Size
- ◆ Completely Passive

Applications

- ◆ Fiberoptic Amplifier
- ◆ CATV Fiberoptic Links
- ◆ WDM System
- ◆ Fiberoptic Instruments

Ordering Information

Oplink can provide customized designs to meet specialized feature applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module or subsystem. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.



Note:

* no connector options for PureMode RC SMF-28 80µm fiber.

** The tolerance of fiber length is +/-0.1m. 1 meter is standard. The lead-time for special fiber length will be longer.

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