

MINI POLARIZATION INSENSITIVE FIBER ISOLATOR (SINGLE STAGE)

Mini OISS Series

Features

- Super Compact Size
- Low Insertion Loss
- Low Insertion Loss Variation Over Wavelength
- High Power Handling
- Highly Stable & Reliable
- Epoxy-Free Optical Path
- 80 μ m Fiber Pigtail Option

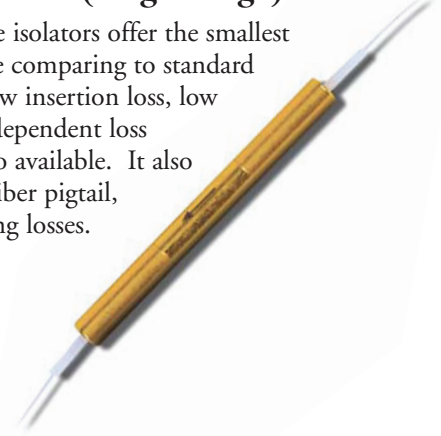
Applications

- EDFA & Raman Amplifiers
- Fiberoptic Instruments
- Fiberoptic Network links
- Transmitters and Fiber Lasers

Mini Polarization Insensitive Fiber Isolator (Single Stage)

Oplink's state of the art, mini polarization-insensitive isolators offer the smallest package size, 3.0x25mm, which saves 60% real estate comparing to standard isolators, with excellent performance such as super low insertion loss, low polarization dependent loss (PDL), low wavelength dependent loss (WDL), and high isolation. Low PMD version is also available. It also has a package option with 80mm reduced cladding fiber pigtail, which results in small bending radius and low bending losses.

Oplink mini isolator can sustain high optical power due to its optical path epoxy-free packaging. It is qualified to Telcordia GR-1221 standards.



Performance Specifications

Mini OISS Series	P Grade	A Grade	Units
Operating Wavelength Range	1310 \pm 15 1480 \pm 15 1528 ~ 1564 or 1570 ~ 1605		nm
Insertion Loss Max. [†] (over operating wavelength range, 0~70°C, all SOP)	0.35	0.40	dB
Isolation Min. (over operating wavelength range, 0~70°C, all SOP)	22	21	dB
Wavelength Dependent Loss Max.	0.1	0.1	dB
Return Loss (Input / Output)	55/50	55/50	dB
Polarization Dependent Loss (PDL) Max.	0.05	0.10	dB
Polarization Mode Dispersion (PMD) Max [†]	0.25	0.25	ps
Maximum Power Handling	2		W
Operating Temperature	0 to +70		°C
Storage Temperature	-40 to 85		°C
Fiber Type	SMF-28, 250 μ m Bare Fiber PureMode RC SMF-28 80 μ m		
Package Dimension *	P3: (ϕ)3.0 x (L)25		mm

Values are referenced without connector loss.

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

[†] For Low PMD version, the PMD (max.) spec is 0.05 ps, and insertion loss spec is 0.05dB higher

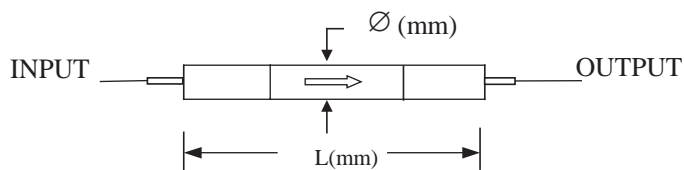
Oplink Fiber Optic Product Lines

- Amplifier Components
- Amplifier Modules
- DWDMs
- Switching/Routing/
- Monitoring/ Conditioning
- Transmission
- RGB Laser Modules



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Mechanical Footprint Dimension (unit: mm)



Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.

