Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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Mini Polarization Insensitive Fiber Isolator (Single Stage)

Mini OISS Series

Product Description

Oplink's state of the art, mini polarization-insensitive isolators offer the smallest package size, 3.0×25mm, 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 80μm 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.

INPUT — Ø (mm) — OUTPUT — L (mm)
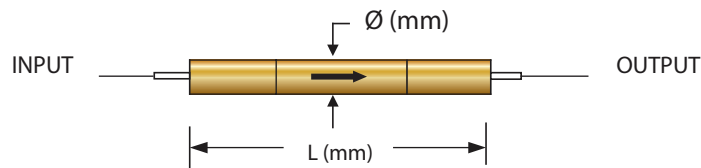
Performance Specification

Mini OISS Series	P Grade	A Grade	Unit
Operating Wavelength Range	1310 ± 15 1480 ± 15 C-band : 1528 ~ 1564 L-band : 1570 ~ 1605		nm
Insertion Loss (Max.) [1]	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 Ports)	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 Jacket	Corning SMF-28 : 250μm bare fiber Pure Mode RC SMF-28 : 80μm bare fiber		
Package Dimensions [3]	P3 : (ø) 3.0 x (L) 25.0		mm

Notes:
[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.*
[4] *For Low PMD version, the PMD (max.) spec is 0.05 ps, and insertion loss spec is 0.05dB higher.*
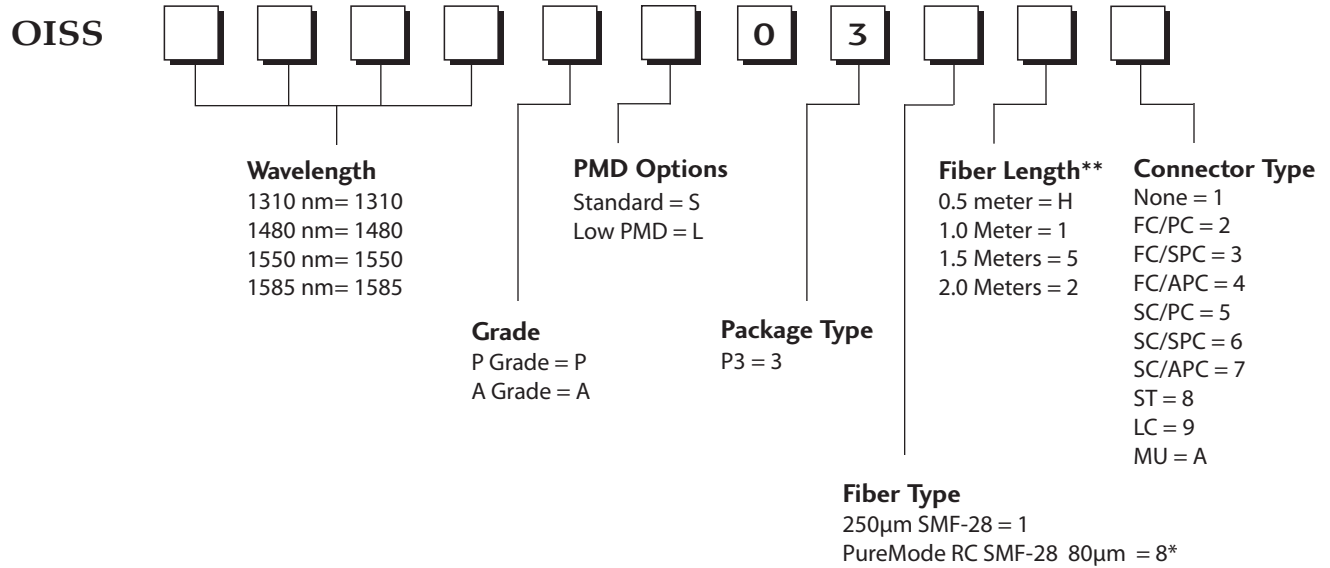
Features

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

Applications

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

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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.

OISS ▢ ▢ ▢ ▢ ▢ ▢ **0** **3** ▢ ▢ ▢

Wavelength
1310 nm= 1310
1480 nm= 1480
1550 nm= 1550
1585 nm= 1585

PMD Options
Standard = S
Low PMD = L

Grade
P Grade = P
A Grade = A

Package Type
P3 = 3

Fiber Length**
0.5 meter = H
1.0 Meter = 1
1.5 Meters = 5
2.0 Meters = 2

Connector Type
None = 1
FC/PC = 2
FC/SPC = 3
FC/APC = 4
SC/PC = 5
SC/SPC = 6
SC/APC = 7
ST = 8
LC = 9
MU = A

Fiber Type
250µm SMF-28 = 1
PureMode RC SMF-28 80µm = 8*

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.
*** RoHS: Add "G" to the end of the above PN for RoHS 6 Requirement.

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