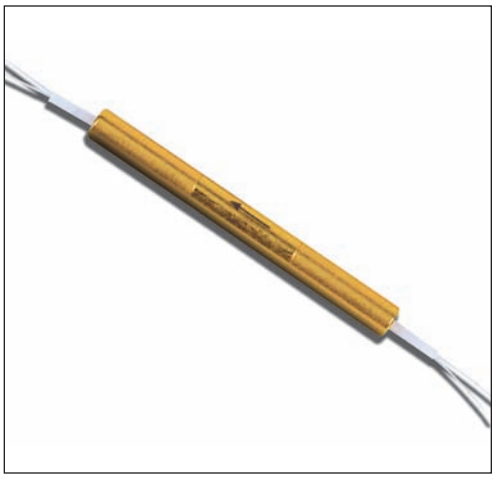
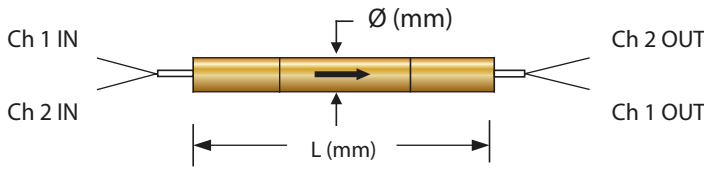
Mini Single Stage Dual Optical Isolator (C or L Band)

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

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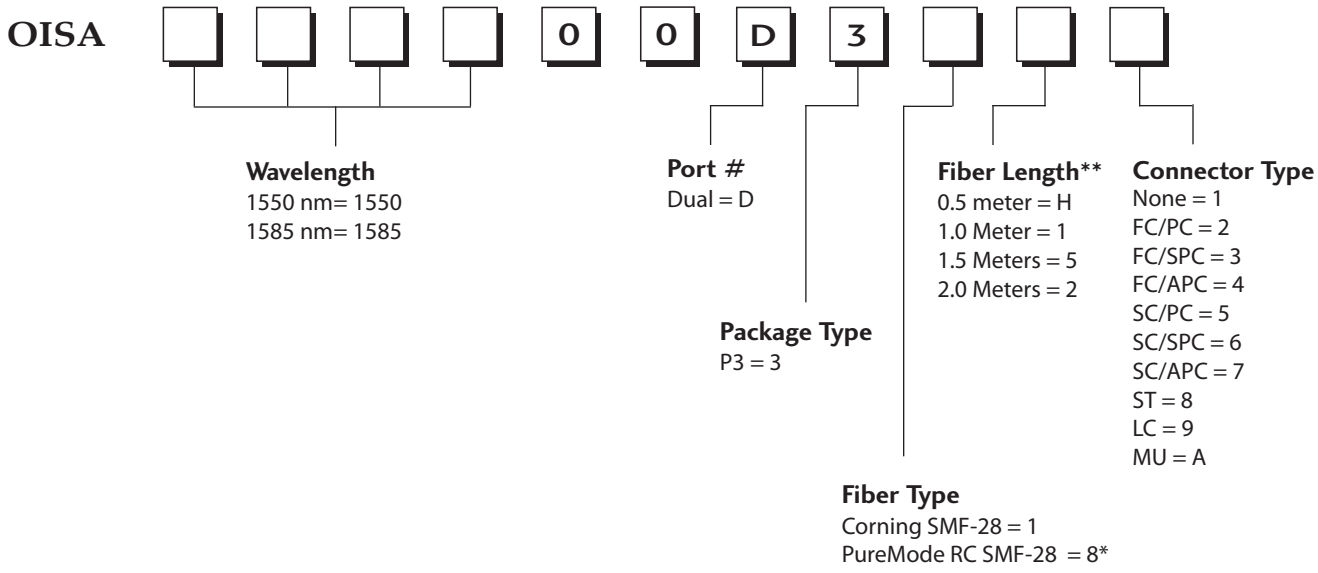
Ordering Information

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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