Single Stage Mini Dual Optical Isolator

Mini OISA Series

Features

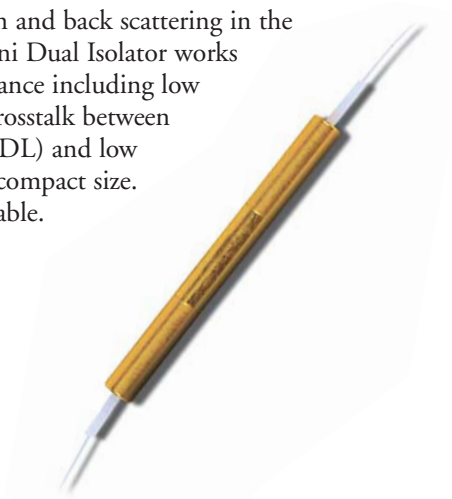
- Low Insertion Loss
- Low Polarization Dependent Loss
- High Isolation
- High Crosstalk Between Different Channels
- Highly Stable & Reliable
- Epoxy-Free Optical Path
- Extremely Compact Size
- Completely Passive

Applications

- Fiberoptic Amplifier
- CATV Fiberoptic Links
- WDM system
- Fiber optic instruments

SINGLE STAGE MINI DUAL OPTICAL ISOLATOR

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 exellent 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.



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.

Performance Specifications

Parameter	Min	Typical	Max.	Units
Operating Wavelength Range λ_o		1528 ~ 1564 or 1570 ~ 1605		nm
Isolation (@ 23°C, λ_o, All SOP)	28			dB
Isolation (@ 0 ~ 70 °C, λ_o, All SOP)	21			dB
Insertion Loss (@ 0 ~ 70 °C, λ_o, All SOP)		0.45	0.6	dB
Return Loss (Input / Output)	55/50	60/55		dB
Crosstalk between different channels	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, Top	0		70	°C
Storage temperature	-40		85	°C
Humidity[1]	0		85	%
Fiber Type	Corning SMF-28, 250μm Bare Fiber PureMode RC SMF-28 80μm			
Connector Type	None			
Port Color Coding	Ch 1: Red, Ch 2: Clear			
Package Dimension	(φ)3.0 x (L)25			mm

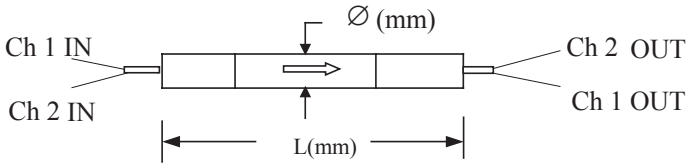
Oplink Fiber Optic Product Lines

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

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SINGLE STAGE MINI DUAL OPTICAL ISOLATOR

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.

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Wavelength
1550 nm=1550
1585 nm=1585

Grade
P Grade = P
A Grade = A

Port #
Dual=D

Package Type
P3 = 3

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

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

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

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

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