Green Polarization Insensitive Fiber Isolator

OIXSG Series

Product Description

Oplink's Green isolator is based on glass encapsulated micro-optic packaging technology and minimizes back reflection and back scattering in the reverse direction for any state of polarization. The Green Isolator is a low cost model with excellent performance such as low insertion loss, high isolation, high return loss, low polarization dependent loss (PDL) and low polarization mode dispersion (PMD) for dual-stage isolator.

Performance Specification

Specifications		OISSG Serie	OIDSG Serie	Unit
Operating Wavelength Range		1310 ± 15 or 1480 ± 15 or C-band: 1528 ~ 1564 or L-band: 1570 ~ 1605		nm
Insertion Loss [1]	Standard PMD	< 0.4	-	dB
	Low PMD	< 0.45	-	dB
		-	< 0.5	
Isolation (over operating wavelength range, 0~70°C, all SOP)		> 20	>35	dB
Polarization Dependent Loss		< 0.06	< 0.08	dB
Polarization Mode Dispersion	Standard PMD	< 0.25	< 0.05	ps
	Low PMD	< 0.05	-	ps
Return Loss (Input/Output Ports)		> 55/50		dB
Maximum Power Handling		< 500		mW
Fiber Type		Corning SMF-28		
Operating Temperature		0 to +70		°C
Storage Temperature		-40 to +85		°C
Package Dimensions [3]		P1: (ø) 5.5 x (L) 34.0, with boot P2: (ø) 5.5 x (L) 34.0, without boot		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

- Wide Operating Wavelength Range and Temperature Range
- Low Insertion Loss
- High Isolation
- Ultra Low PDL & Option for Ultra Low PMD
- Highly Stable & Reliable
- Epoxy-free Optical Path

Applications

- Fiberoptic Amplifiers
- CATV Fiberoptic Links
- WDM Systems
- Fiberoptic Instruments
- Transmitters and Fiber Lasers
- Laboratory R&D

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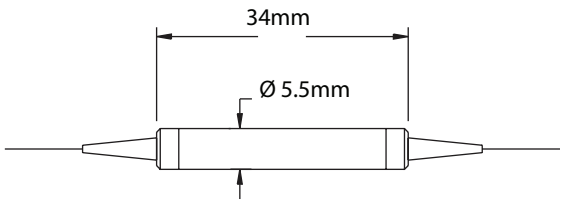
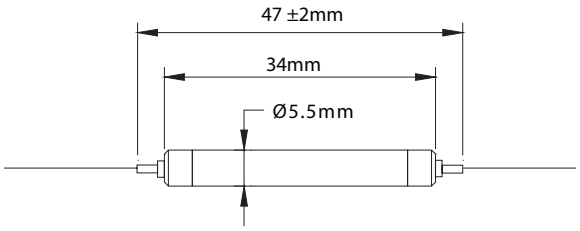
Mechanical Drawing / Package Dimensions (dimension in mm)

P1 Package:



P2 Package:



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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Stage
Single Stage = S
Dual Stage = D

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

PMD Options*
Standard = S
Low PMD = L

Package & Fiber Jacket
P1 + 250µm bare fiber = 11
P1 + 900µm loose tube = 12
P2 + 250µm bare fiber = 21

Fiber Length**
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

**For OIDSG series, the PMD option is 'S'. For OISSG series, the PMD option is 'S' or 'L' based on customer's requirement.*
***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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