

# 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 <sup>[1]</sup>	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 <sup>[3]</sup>	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

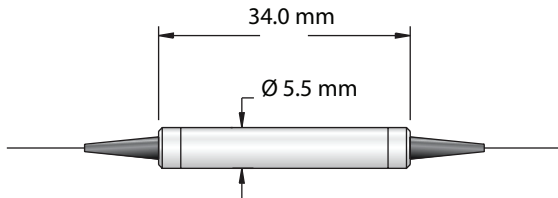
- ◆ Wide Operating Wavelength Range and Temperature Range
- ◆ Low Insertion Loss
- ◆ High Isolation
- ◆ Ultra Low PDL & Option for Ultra Low PMD
- ◆ Highly Stable & Reliable
- ◆ Epoxy-free Optical Path

### Applications

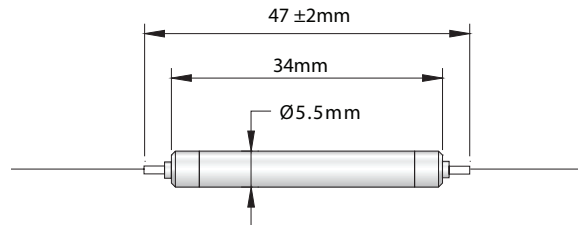
- ◆ Fiberoptic Amplifiers
- ◆ CATV Fiberoptic Links
- ◆ WDM Systems
- ◆ Fiberoptic Instruments
- ◆ Transmitters and Fiber Lasers
- ◆ Laboratory R&D

**Mechanical Drawing / Package Dimensions (dimension in mm)**

P1 Package:

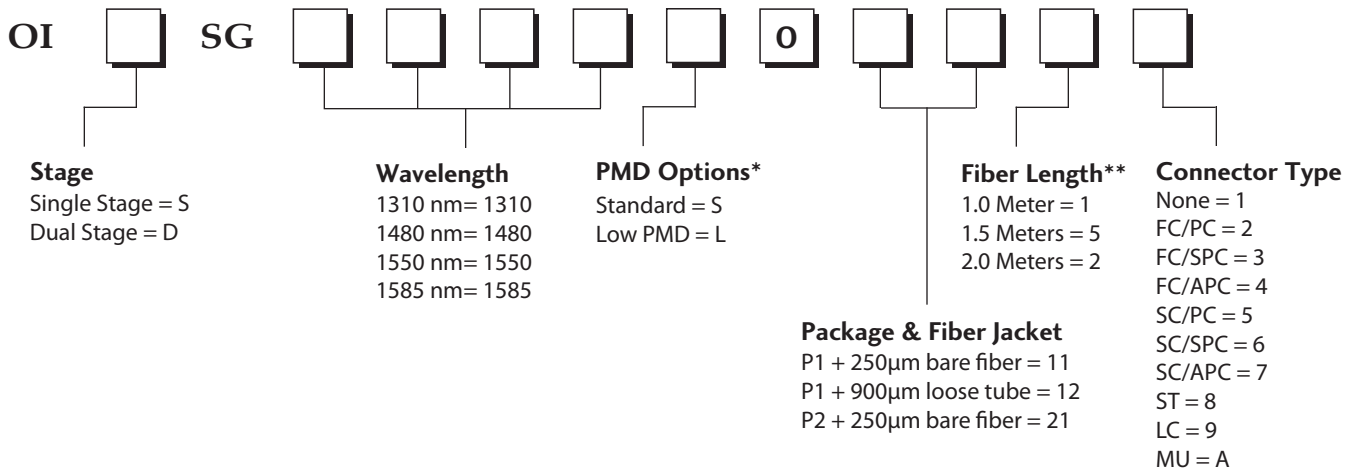


P2 Package:



**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.



\*For OIXSG 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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