



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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# 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	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

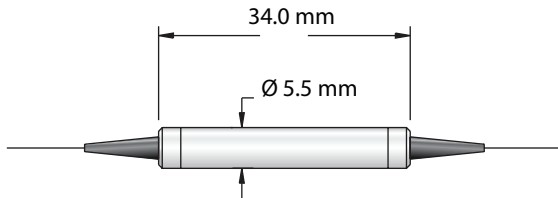
- ◆ Wide Operating Wavelength Range and Temperature Range
- ◆ Low Insertion Loss
- ◆ High Isolation
- ◆ Ultra Low PDL & Option for Ultra Low PMD
- ◆ Highly Stable & Reliable
- ◆ Epoxy-free Optical Path

### Applications

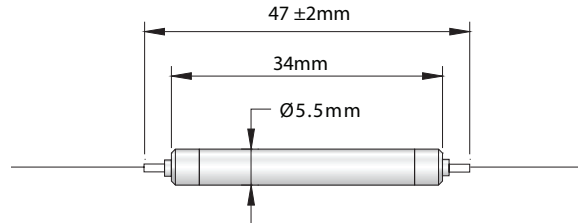
- ◆ Fiberoptic Amplifiers
- ◆ CATV Fiberoptic Links
- ◆ WDM Systems
- ◆ Fiberoptic Instruments
- ◆ Transmitters and Fiber Lasers
- ◆ Laboratory R&D

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

P1 Package:

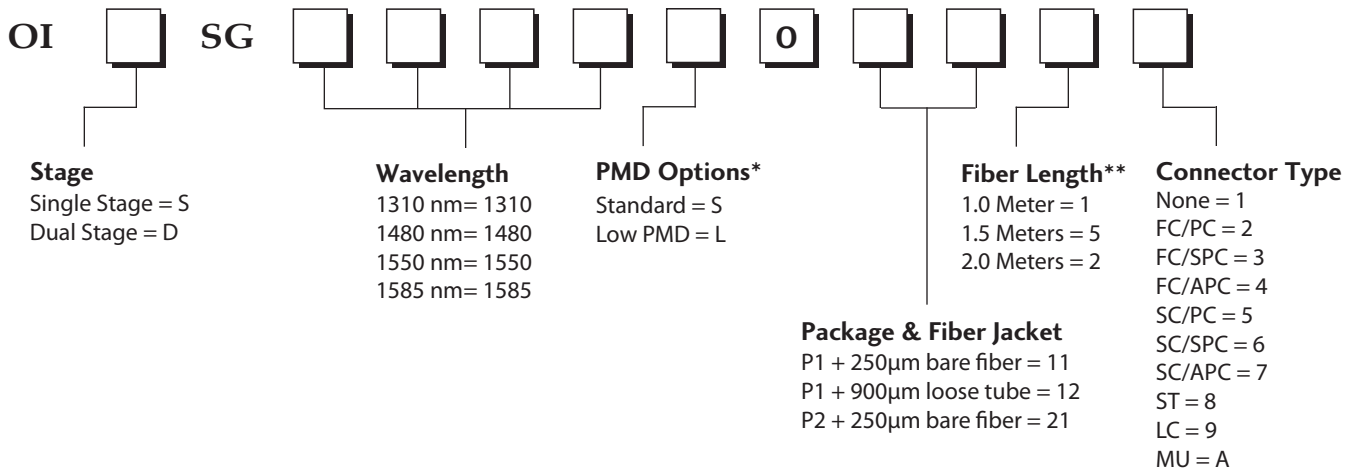


P2 Package:



**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.