

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		OIXSG 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

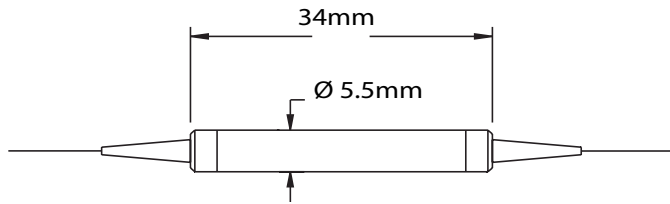
- ◆ Wide Operating Wavelength Range and Temperature Range
- ◆ Low Insertion Loss
- ◆ High Isolation
- ◆ Ultra Low PDL & Option for Ultra Low PMD
- ◆ Highly Stable & Reliable
- ◆ Epoxy-free Optical Path

Applications

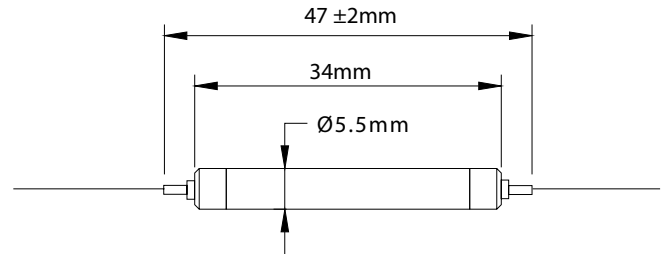
- ◆ Fiberoptic Amplifiers
- ◆ CATV Fiberoptic Links
- ◆ WDM Systems
- ◆ Fiberoptic Instruments
- ◆ Transmitters and Fiber Lasers
- ◆ Laboratory R&D

Mechanical Drawing / Package Dimensions (dimension in mm)

P1 Package:



P2 Package:


Ordering Information

OI		SG					0				
Stage			Wavelength			PMD Options*		Fiber Length**		Connector Type	
Single Stage = S			1310 nm= 1310			Standard = S		1.0 Meter = 1		None = 1	
Dual Stage = D			1480 nm= 1480			Low PMD = L		1.5 Meters = 5		FC/PC = 2	
			1550 nm= 1550					2.0 Meters = 2		FC/SPC = 3	
			1585 nm= 1585							FC/APC = 4	
										SC/PC = 5	
										SC/SPC = 6	
										SC/APC = 7	
										ST = 8	
										LC = 9	
										MU = A	
									</		

*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.