

# 1310/1550 High Power Single Stage Optical Isolator

(patent pending)

## Product Description

The OIHP Series 1310/1550 high power single stage optical isolator is designed for high power applications by guiding light at 1310/1550 nm in the normal direction while minimizing back reflection and back scattering in the reverse direction for any state of polarization. Employing Agiltron's proven advanced micro optics design, it features low insertion loss, high power handling, high isolation, compact structure, and high stability. These Telcordia qualified components have excellent characteristics, making them an ideal choice for application in fiber amplifier systems, pump laser diodes and optical fiber sensors.



## Features

- Low Insertion Loss
- High Power Handling
- High Isolation
- Low PDL
- High Reliability
- Low Cost

## Performance Specifications

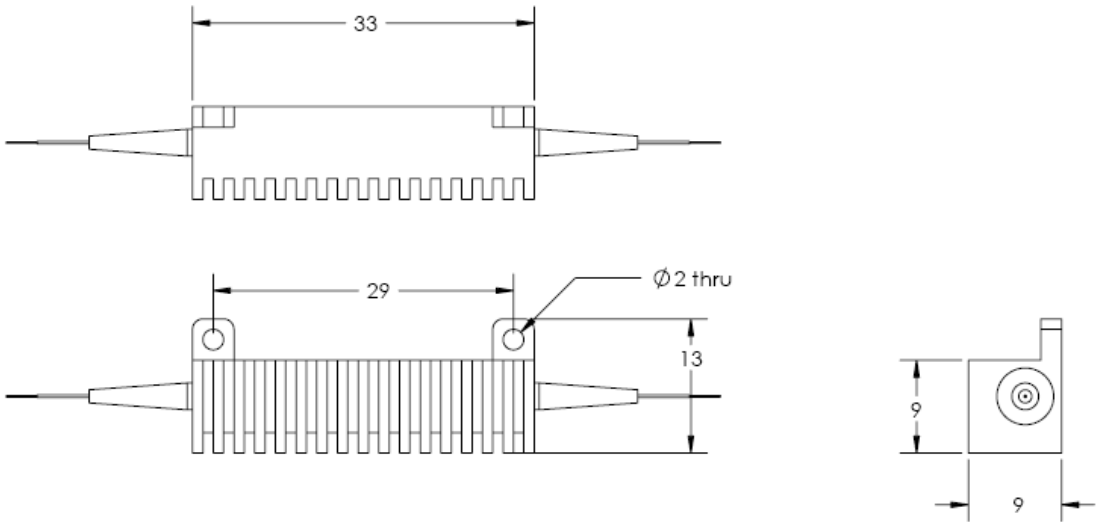
OIHP Single Stage		Specification	Unit
Operation Wavelength ( $\lambda_o$ )	1310	1310 $\pm$ 15	nm
	C Band	1528 ~ 1564	
	L Band	1570 ~ 1605	
Typical Insertion Loss (Over $\lambda_o$ , 0-70°C, SOP, no connector)		$\leq$ 0.5	dB
Maximum Insertion Loss (Over $\lambda_o$ , 0-70°C, SOP, no connector)		$\leq$ 0.7	dB
Minimum Isolation (Over $\lambda_o$ , 0-70°C, SOP)		$\geq$ 22	Typ $\geq$ 32 *
Minimum Peak Isolation (Over $\lambda_o$ , 23°C, SOP)		$\geq$ 28	Typ $\geq$ 38 *
Polarization Dependant Loss		$\leq$ 0.15	dB
Polarization Mode Dispersion **		$\leq$ 0.2	ps
Return Loss (Minimum, Input/Output)		$\geq$ 55/50	dB
Operating Temperature		0 ~ +70	°C
Storage Temperature		-40 ~ +85	°C
Optical Power Handling		$\leq$ 5***	W
Package Dimensions		LxWxH=33x13x9	mm
* At central wavelength			
**Special order for PMD $\leq$ 0.05ps with compensator			
*** Continuous operation, for pulse operation call. Requiring mount the unit for heat dissipation.			

## Applications

- Optical Fiber Amplifier
- Pump Laser Source
- Fiber Optic Sensor
- Instrumentation

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## Mechanical Dimensions



## Ordering Information

OIHP-	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Type	Wavelength	Grade	Package	Fiber Type		Fiber Length	Connector
	10=Single stage	3=1310 C=C Band L=L Band 0=Special	1=Standard 0=Special	1= $\phi 5.5 \times 40$ 0=Special	1=SMF-28 0=Special	1=Bare Fiber 3=900 $\mu$ m Loose Tube 0=Special	1=0.25m 2=0.5m 3=1.0m 0=Special	1=None 2=FC/PC 3=FC/APC 4=SC/PC 5=SC/APC 6=ST/PC 7=LC 0=Special