

1310/1550 High Power Dual Stage Optical Isolator

(patent pending)

Product Description

The OIHP Series 1310/1550 high power dual 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.



Performance Specifications

OIHP Dual Stage		Specification	Unit
Operation Wavelength (λ_o)	1310	1310 \pm 15	nm
	C Band	1528 ~ 1564	
	L Band	1570 ~ 1605	
Typical Insertion Loss (Over λ_o , 0-70°C, SOP, no connector)		\leq 0.7	dB
Maximum Insertion Loss (Over λ_o , 0-70°C, SOP, no connector)		\leq 0.9	dB
Minimum Isolation (Over λ_o , 0-70°C, SOP)****		\geq 35 Typ \geq 42 *	dB
Minimum Peak Isolation (Over λ_o , 23°C, SOP)		\geq 42 Typ \geq 52 *	dB
Polarization Dependant Loss		\leq 0.15	dB
Polarization Mode Dispersion		\leq 0.05	ps
Return Loss (Minimum, Input/Output)		\geq 55/50	dB
Operating Temperature		0 ~ +70	°C
Storage Temperature		-40 ~ +85	°C
Optical Power Handling		5 or 10 **, ***	W
Package Dimensions		LxWxH=61X9.2X9.2	mm
* At central wavelength ** It is strongly recommend to put a fan aside for heat dissipation. *** Continuous operation, for pulse operation call. **** Back Reflect < 10%. For >10% application, please call us.			

Features

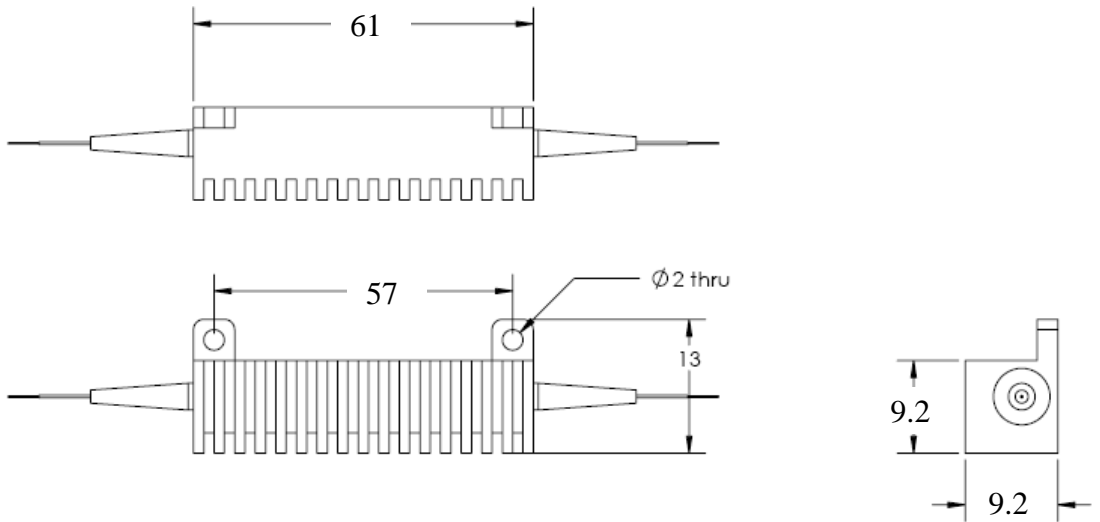
- Low Insertion Loss
- High Power Handling
- High Isolation
- Low PDL
- High Reliability
- Low Cost

Applications

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

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Mechanical Dimensions



Ordering Information

OIHP-	20	<input type="checkbox"/>	<input type="checkbox"/>	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1*
	Type	Wavelength	Grade	Package	Fiber Type		Fiber Length	Connector
	20=Dual stage	3=1310 C=C Band L=L Band 0=Special	0=Special 5=5 watts 6=10 watts		1=SMF-28 0=Special	1=Bare Fiber 3=900 μ m Loose Tube 0= Special	1=0.25m 2=0.5m 3=1.0m 0=Special	

* Agiltron provide high power connector, please call.