

1310/1550 High Power Single Stage Polarization Maintaining Optical Isolator

(patent pending)

Product Description

1310/1550 high power polarization maintaining single stage optical isolator is a passive device that maintaining polarization while guiding light at 1310/1550 nm in the normal direction, and 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, extremely high isolation, high extinction ratio, compact package and high stability, making them an ideal choice for application in fiber amplifier systems, optical fiber sensors and instrumentation.



Performance Specifications

OIHP PM Single Stage		Specification	Unit
Operation Wavelength (λ_o)	1310	1310 \pm 15	nm
	C Band	1535 ~ 1565	
	L Band	1570 ~ 1605	
Typical Insertion Loss(Over λ_o , 0~70°C, no connector)		\leq 0.5	dB
Maximum Insertion Loss (Over λ_o , 0~70°C, no connector)		\leq 0.7	dB
Minimum Extinction Ratio (Over λ_o , 0~70°C, no connector)		\geq 20	dB
Typical Extinction Ratio (λ_c , 23°C, no connector)		\geq 25	dB
Minimum Channel Isolation (Over λ_o , 0~70°C)**		\geq 32	dB
Typical Channel Isolation (λ_c , 23°C)		\geq 42	dB
Minimum Return Loss (Input/Output, no connector)		\geq 50	dB
Polarization Alignment		Slow Axis	
Operating Temperature		0 ~ +70	°C
Storage Temperature		-40 ~ +85	°C
Optical Power Handling		\leq 5*	W
Package Dimensions		LxWxH=33x13x9	mm

* Continuous operation, for pulse operation call. Requiring mount the unit for heat dissipation.

** Back Reflect<10%. For >10% application, please call us.

Features

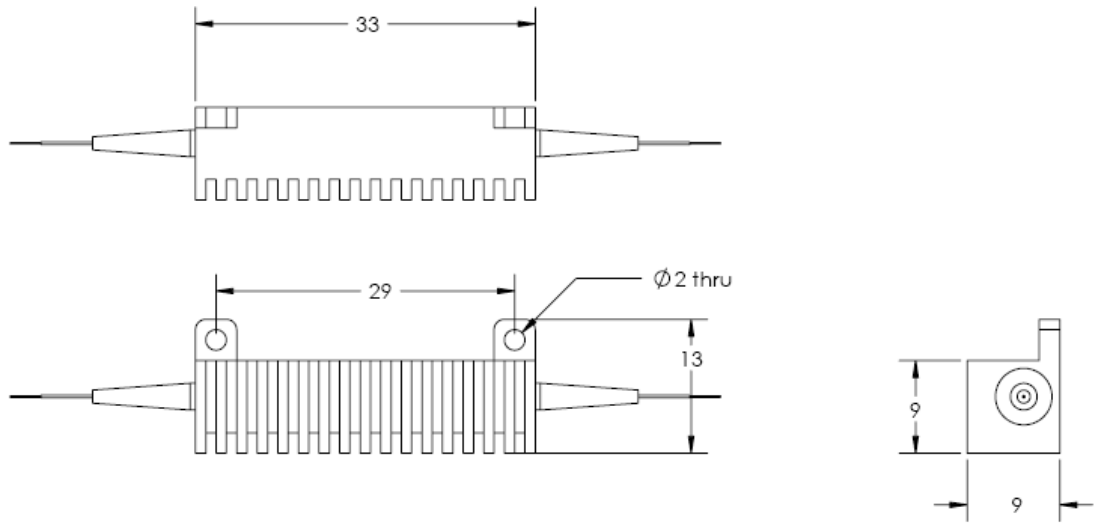
- Low Insertion Loss
- High Power Handling
- High Isolation
- Low PDL
- High Reliability
- Low Cost

Applications

- Optical Fiber Amplifier
- Fiber Optic Sensor
- Instrumentation

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Mechanical Dimensions



Ordering Information

OIHP-	30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1*
Type	Wavelength	Grade	Package	Fiber Type	Fiber Length	Connector		
30= Polarization Maintaining Single stage	3=1310 C=C Band L=L Band 0=Special	1=Standard 0=Special	1=Ø5.5x40 0=Special	A=Panda 400µm B=Panda 250µm 0=Special	1=Bare Fiber 3=900µm Loose Tube 0=Special	1=0.25m 2=0.5m 3=1.0 0=Special		

* Agiltron provide high power connector, please call.