1310/1550 High Power Dual Stage Polarization Maintaining Optical Isolator

（patent pending)

Product Description

1310/1550 high power polarization maintaining dual 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. .

Features

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

Applications

- Optical Fiber Amplifier
- Fiber Optic Sensor
- Instrumentation

Performance Specifications

OIHP PM Dual Stage		Specification	Unit
Operation Wavelength (λo)	1310	1310 ± 15	nm
	C Band	1535 ~ 1565	
	L Band	1570 ~ 1605	
Typical Insertion Loss (Over λo, 0~70°C, no connector)		≤ 0.6	dB
Maximum Insertion Loss (Over λo, 0~70°C, no connector)		≤ 0.9	dB
Minimum Extinction Ratio (Over λo, 0~70°C, no connector)		≥ 20	dB
Typical Extinction Ratio (λc, 23°C, no connector)		≥ 25	dB
Minimum Channel Isolation (Over λo, 0~70°C) **		≥ 46	dB
Typical Channel Isolation (λc, 23°C)		≥ 58	dB
Minimum Return Loss (Input/Output, no connector)		≥ 50	dB
Polarization Alignment		Slow Axis	
Operating Temperature		0 ~ +70	°C
Storage Temperature		-40 ~ +85	°C
Optical Power Handling		≤ 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.

15 Presidential Way , Woburn, MA 01801 Tel: (781) 935-1200 Fax: (781) 935-2040

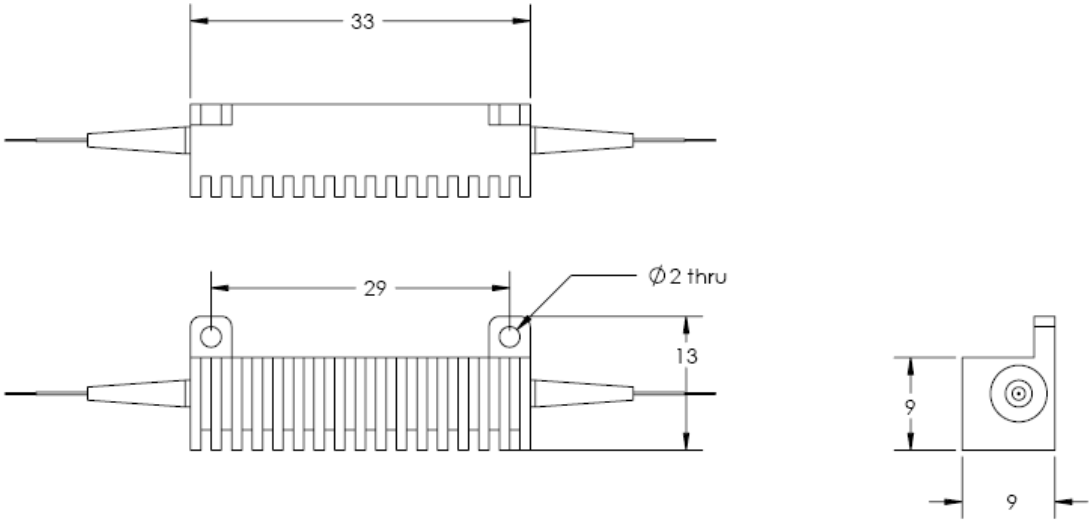
www.agiltron.com

Revision: 060-12
05-13-11

1310/1550 High Power Dual Stage Polarization Maintaining Optical Isolator

（patent pending)

Mechanical Dimensions



Ordering Information

OIHP-	40	☐	☐	☐	☐ ☐		☐	1*
	Type	Wavelength	Grade	Package	Fiber Type		Fiber Length	Connector
	40=Polarization Maintaining Dual stage	3=1310 C=C Band L=L Band 0=Special	1=Standard 0=Special	1=∅5.5x40 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=1.0m 0=Special	

* Agiltron provide high power connector, please call.

15 Presidential Way , Woburn, MA 01801 Tel: (781) 935-1200 Fax: (781) 935-2040

www.agiltron.com

Revision: 060-12
05-13-11