

# Bi-Substituted Iron Garnet Based Polarization Independent 1060nm Optical Isolator

(patents pending)

## Product Description

The OI Series BIG based 1060 nm Optical Isolator is a passive device that guides lights at 1060 nm in the normal direction while minimizing back reflection and back scattering in the reverse direction for any state of polarization. With Agiltron's proprietary magnetic-optics technology and proven advanced micro optics design, it features low insertion loss, high isolation, compact structure, high power handling, and high stability. The excellent characteristics of this product make it an ideal choice for application in fiber amplifier systems, pump laser diodes, and optical fiber sensors. We currently offer a full range of polarization independent, polarization maintain, and multimode versions. Agiltron also provides customized design to meet special applications.



## Performance Specifications

OI Series BIG based PI Isolator	Min	Typical	Max	Unit
Operation Wavelength	1060	1064	1070	nm
Insertion Loss		1.4	1.8	dB
Wavelength Dependent Loss			0.2	dB
Isolation	23	28		
Polarization Dependent Loss		0.1	0.2	dB
Polarization Mode Dispersion			0.2	ps
Return Loss	50			dB
Optical Power Handling			300	mW
Fiber Type	See order information			
Package Dimension	(Ø)5.5 X (L)34			mm

## Features

- Low Insertion Loss
- High Isolation
- Low PDL
- High Stability
- High Reliability
- Cost Effective

## Applications

- Optical Fiber Amplifier
- Pump Laser Source
- Fiber Optic Sensor
- Test and Measurement
- Instrumentation

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## Ordering Information

OISB-	<input type="checkbox"/>	<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
	Polarization Independent=11 Multimode=13 Special=10	1060=1 Special=0	Standard=1 Special=0	Standard=1 Special=0	HI1060=2 HI1060 Flex=3 Multimode 50/125=5 Multimode 62.5/125=6 Special=0	Bare fiber=1 900um Loose tube=3 Special=0	0.25M=1 0.5M=2 1.0M=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0