

# Terbium Gallium Garnet Based Multi Mode 850nm Optical Isolator

(patents pending)

## Product Description

The OIST Series TGG Based 850nm Optical Isolator is a passive device that guides lights at 850nm 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, the isolator 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.



## Performance Specifications

TGG Based MM Isolator	Min	Typical	Max	Unit
Operation Wavelength	845	850	855	nm
Insertion Loss*		1.2	1.5	dB
Wavelength Dependent Loss*			0.2	dB
Isolation*	20	25		dB
Return Loss*	20	30		dB
Storage Temperature	-10		60	°C
Fiber Type	50/125,62.5/125 Multimode			
Package Dimension	L60 x W34 x H33			mm

Note(\*):

1. Measured using laser with coupled power ratio of categories 5 (CPR). Laser with larger mode fill ratio needs special version.
2. Exclude connectors.

## Features

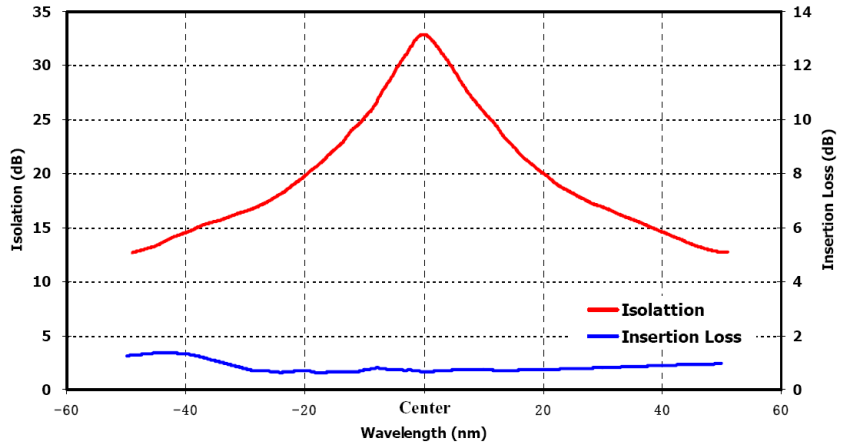
- Low Insertion Loss
- High Isolation
- Low PDL
- High Stability
- High Reliability
- Cost Effective

## Applications

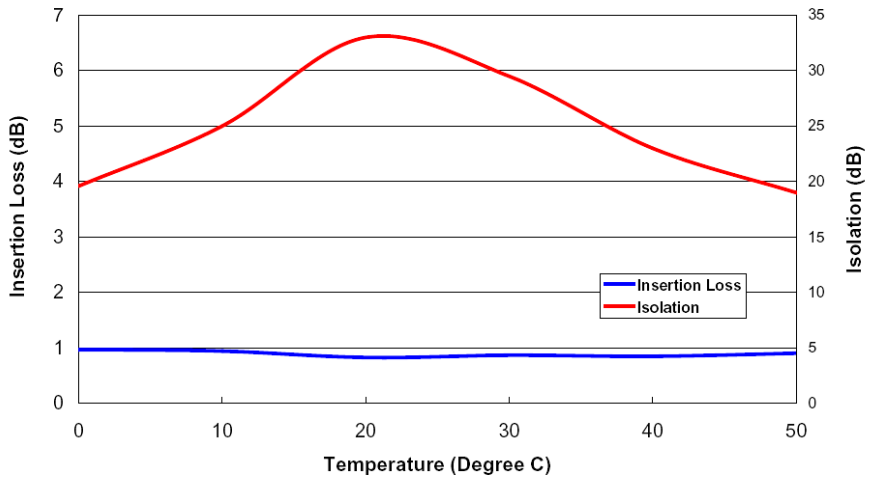
- Optical Fiber Amplifier
- Pump Laser Source
- Fiber Optic Sensor
- Test and Measurement
- Instrumentation

# Terbium Gallium Garnet Based Multi Mode 850nm Optical Isolator

## Optical Performance



IL/Iso Vs. Temp @ Center Wavelength



## Ordering Information

OIST-	1 3	8	<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
	Multimode=13	850nm=8	Standard=1 Special=0	Standard=1 Special=0	50/125MM=5 62.5/125MM=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