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# Terbium Gallium Garnet Based Polarization Maintaining 850/980/1060 Optical Circulator

(patents pending)

## Product Description

The OC Series Terbium Gallium Garnet based 850/980/1060nm Optical Circulators are non-reciprocal devices that redirect light at 850/980/1060 nm from port-to-port in only one direction while minimizing back reflection and back scattering in the reverse directions for any state of polarization. With Agiltron's patent pending magnetic-optics technology and proven advanced micro optics design, the circulator 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. Agiltron also provides customized design to meet special applications.



## Performance Specifications

OC Series TGG based 850/980/1060 nm Fiberoptic Circulator		PM	Min	Typical	Max	Unit
Operation Wavelength	850		840		860	nm
	980		970		990	
	1060		1050		1070	
Insertion Loss <sup>1</sup>				1.0	1.5	dB
Wavelength Dependent Loss					0.2	dB
Isolation			20	25		dB
Extinction Ratio			20	25		dB
Cross Talk			45	50		dB
Return Loss			50			dB
Optical Power Handling				500		mW
Storage Temperature			-10		60	°C
Fiber Type		See order information				
Package Dimension		(L)96x(W)34X(H)33				mm

1. Excluding connectors

## Features

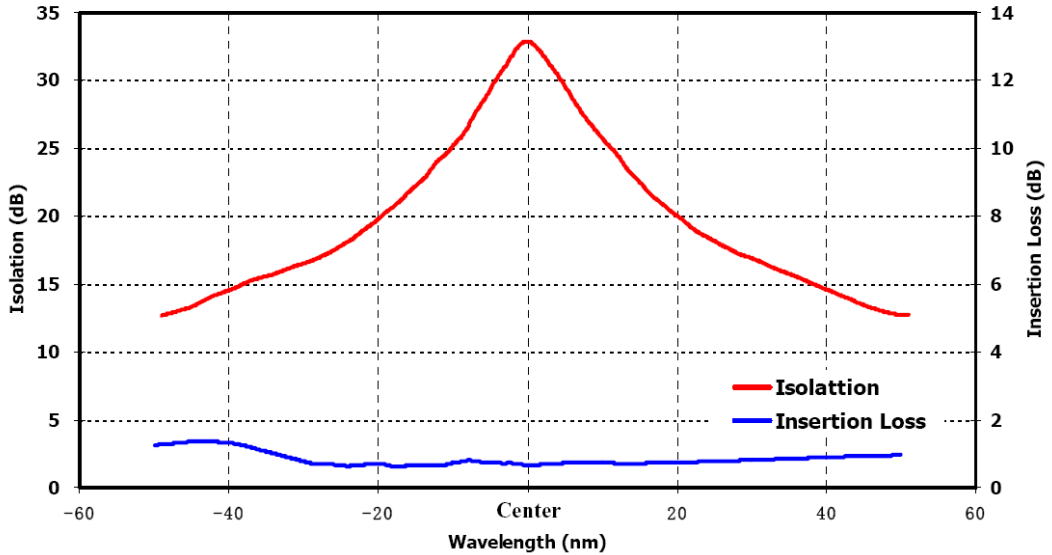
- Low Insertion Loss
- High Isolation
- Low PDL
- High Reliability & Stability
- Cost Effective

## Applications

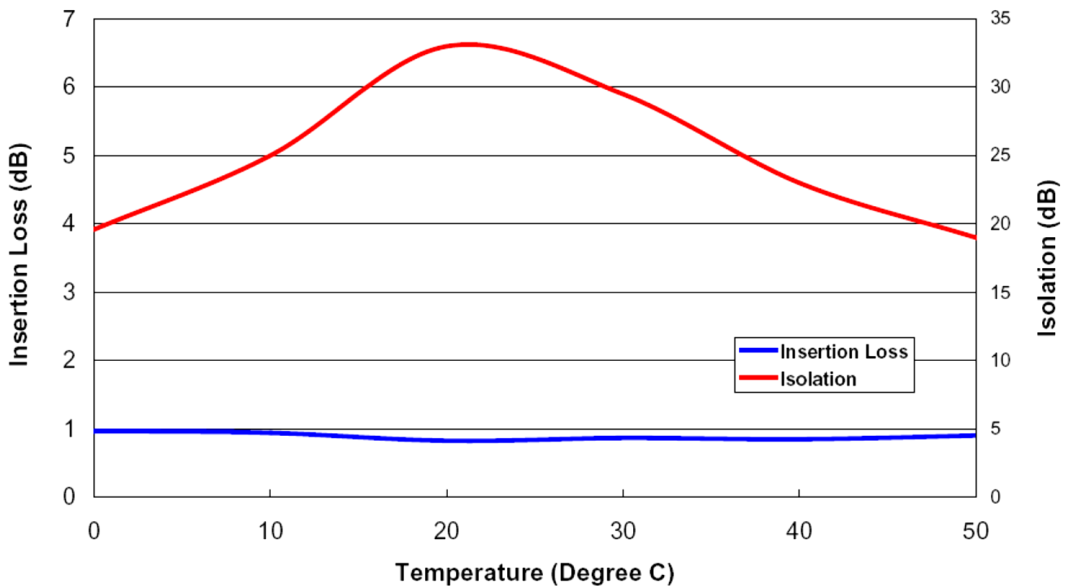
- Optical Fiber Amplifier
- Pump Laser Source
- Fiber Optic Sensor
- Test and Measurement
- Instrumentation

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## Optical Performance

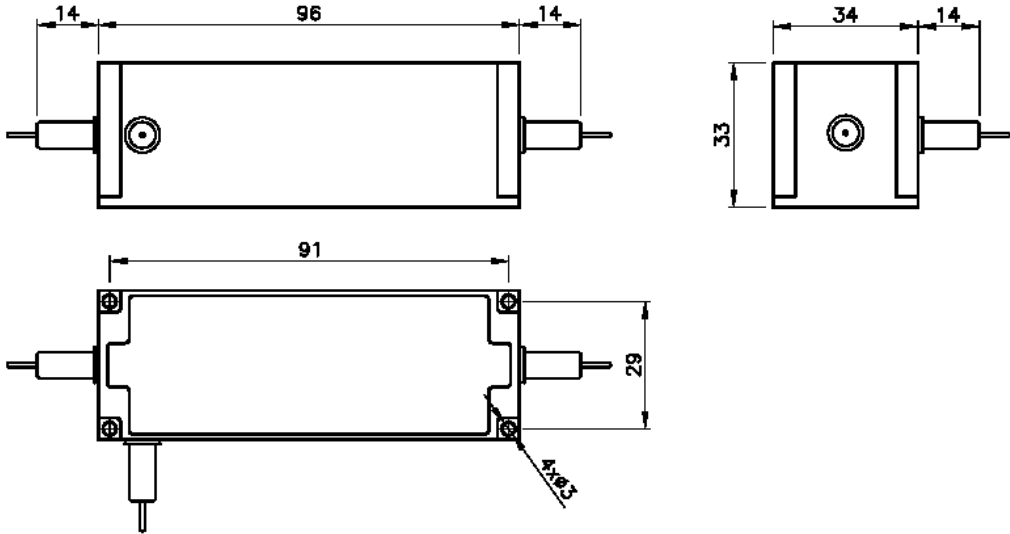


IL/Iso Vs. Temp @ Center Wavelength



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## Mechanical Dimensions (Unit:mm)



\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

## Ordering Information

OCST-	<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 Maintaining=12 Special=10	1060=1 850=8 980=9 Special=0	Standard=1 Special=0	Standard=1 Special=0	PM850=D PM980=E 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	