

High Power TGG Based 850/980/1060 Optical Circulator

(patents pending)

Product Description

The OC Series High Power TGG Based 850/980/1060nm Optical Circulator is non-reciprocal device designed for high power applications, it 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 proprietary in-fiber beam expansion technology that scale down the power density, the OC Series High Power Circulator can intrinsic handle optical power beyond 20W, all devices are tested under high power before shipping. 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 850/980/1060nm PI Fiberoptic Circulator		Min	Typical	Max	Unit
Operation Wavelength	850	840		860	nm
	980	970		990	
	1060	1050		1070	
Insertion Loss ¹			1.2	1.6	dB
Wavelength Dependent Loss				0.2	dB
Isolation	20	25		dB	
Polarization Dependent Loss			0.1	0.2	dB
Cross Talk	45	50		dB	
Return Loss	50			dB	
Optical Power Handling *			20	W	
Storage Temperature	-10		60	°C	
Fiber Type		See order information			
Package Dimension	(L)96x(W)34X(H)33			mm	

- * Continuous operation, for pulse operation call.
- 1. Excluding connectors.

Features

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

Applications

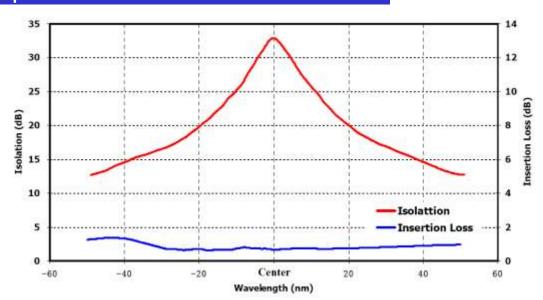
- Optical Fiber Amplifier
- Pump Laser Source
- Fiber Optic Sensor
- Test and Measurement
- Instrumentation



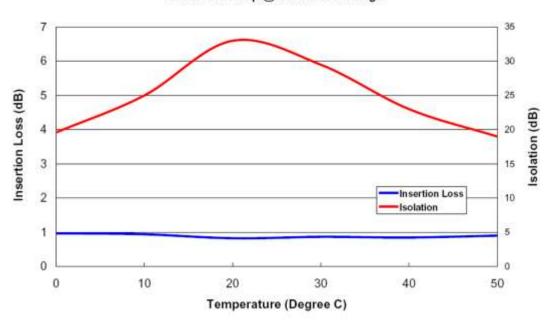
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IL/Iso Vs. Temp @ Center Wavelength

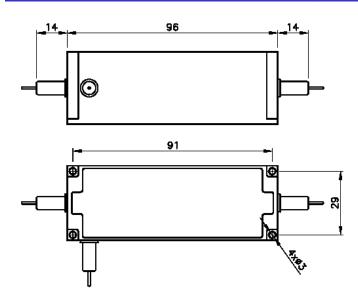


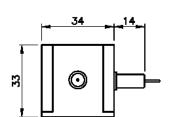


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Mechanical Dimensions (Unit:mm)





Ordering Information

OCST-							1*
Туре	Wavelength	Grade	Package	Fiber Type		Fiber Length	Connector
HP Polarization Independent = 31 HP Polarization Maintaining = 32 Special = 30	1060=1 850=8 980=9 Special=0	1W = 1 2W = 2 5W = 5 10W = 6 20W = 7	Standard=1 Special=0	HI1060 = 2 HI980 = 9 PM980 = E Special = 0	Bare fiber=1 900um Loose tube=3 Special=0	0.25M=1 0.5M=2 1.0M=3 Special=0	

^{*} Agiltron provide high power connector, please call.