

Bi-Substituted Iron Garnet Based Polarization Independent 1060nm Optical Circulator

(patents pending)

Product Description

The OC Series Bi-Substituted Iron Garnet based 1060nm optical circulators are non-reciprocal devices that redirect light at 1060 nm from port-to-port in one direction only 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, 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. Agiltron also provides customized design to meet special applications.



Performance Specifications

OC Series BIG based 1060 nm PI Fiberoptic Circulator	Min	Typical	Max	Unit
Operation Wavelength	1060	1064	1070	nm
Insertion Loss ¹		1.5	2.0	dB
Wavelength Dependent Loss			0.2	dB
Isolation	23	28		dB
Polarization Dependent Loss		0.1	0.2	dB
Cross Talk	45	50		dB
Return Loss	50			dB
Optical Power Handling			300	mW
Fiber Type	See order information			
Package Dimension	(L)35x(W)8.4X(H)8.4			mm

1. Excluding connectors

Features

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

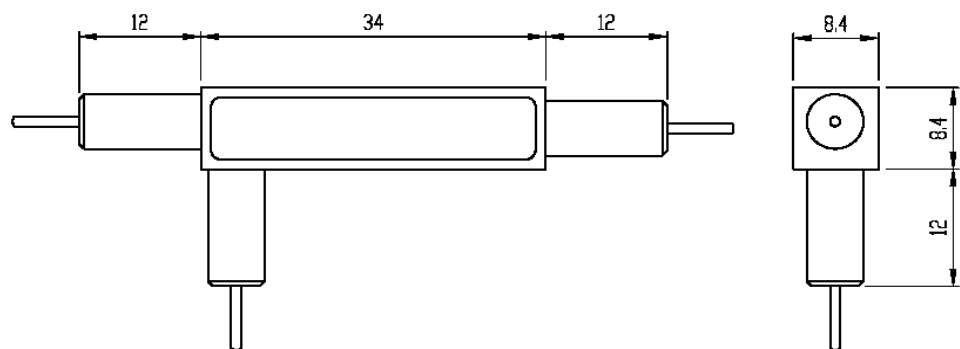
Applications

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

Revision: 060-12
06-06-11

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Mechanical Dimensions (Unit:mm)



Ordering Information

OCSB-	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

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