

# Bi-substituted Iron Garnet Based Polarization Maintaining 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 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, it features in 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 1060nm PM Fiberoptic Circulator	Min	Typical	Max	Unit
Operation Wavelength	1060	1064	1070	nm
Insertion Loss <sup>1</sup>		1.5	2.0	dB
Wavelength Dependent Loss			0.2	dB
Isolation	23	28		dB
Extinction Ratio	20	25		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

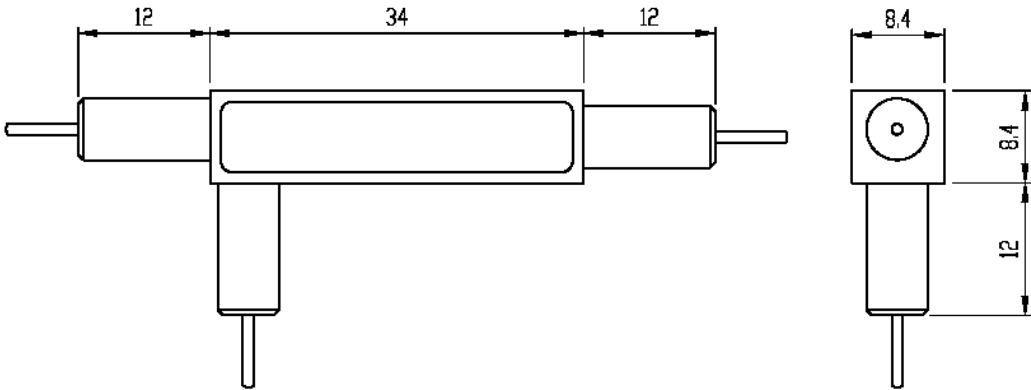
- Low Insertion Loss
- High Isolation
- Low PDL
- High Reliability & Stability
- Cost Effective

## Applications

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

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## Mechanical Dimensions (Unit:mm)



## Order Information

OCSB-	<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 Type	Fiber Type		Fiber Length	Connector Type	
Polarization Maintaining = 12 Special = 10	1060 = 1 Special = 0	Standard = 1 Special = 0	Standard = 1 Special = 0	PM 980= E Special = 0	Bare fiber = 1 Tight buffer = 2 900um loose tube=3 3mm cable = 4	0.25m= 1 0.5m = 2 1.0 m= 3 1.5m = 4 2.0m = 5 Special=0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Special = 0	