

3-Port Multimode Optical Circulator

(patent pending)

Product Description

The OC Series 1310/1550 optical circulators are non-reciprocal devices that redirect light from port-to-port in one direction while minimizing reflection and scattering in the reverse directions for any state of polarization. Agiltron's advanced micro optics design features low insertion loss, Low

Polarization sensitivity, high isolation, compact structure 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.



Features

- Low Insertion Loss
- High Channel Isolation
- Compact Package
- High Reliability & Stability
- Cost Effective

Performance Specifications

OC Series 1310/1550 Circulator		Specifications	Unit
Operating Wavelength*	1310	1295 ~ 1325	nm
	1550	1530 ~ 1570	
Insertion Loss**, ***	Typical	0.7	dB
	Maximum	1.0	
Wavelength Dependent Loss		< 0.15	dB
Channel Isolation (2→1, 3→2)***		> 35	dB
Directivity (1→3)		> 40	dB
Polarization Mode Dispersion		< 0.06	ps
Return Loss***		> 40	dB
Optical Power Handling		< 500****	mW
Operating Temperature Range		0 ~ 70	°C
Storage Temperature		-40 ~ 85	°C
Fiber Type		Corning 50/125 MM	
Fiber Length		> 1	m
Package Dimension		Φ8.0x 75(L)	mm

* Special wavelength available.

** Without connector.

*** Our device is designed and optimized for certain laser launch condition which is characterized as CPR value. In general, if application exceeds the specified CPR value, optical performance will become worsen.

**** Continuous operation, for pulse operation call.

Applications

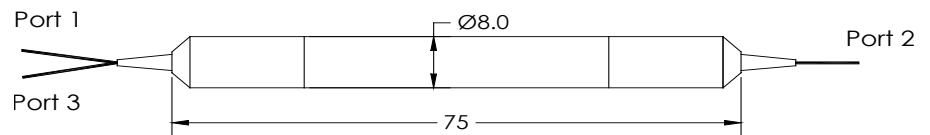
- Metropolitan Area Network
- Fiber Optic Sensor
- Dispersion Compensation
- Test and Measurement
- Instrumentation

Revision: 050-10
05-13-11

1310/1550 nm Optical Circulator

Mechanical Dimensions (mm)

3-Port Circulator



Ordering Information

OC-	Type	Wavelength	Grade	Package Type	Fiber Type	Fiber Length	Connector Type
<input type="checkbox"/>	3 Port =30 Special =00	1310 = 3 1550 = 5 1590 = 9 C+L=7 Special = 0	<input checked="" type="checkbox"/>	=1 Special=0	250um bare fiber =1 900um loose tube =2 Special = 0	0.5m= 1 1.0m = 2 1.5 m= 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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