



## 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		∅8.0x 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.

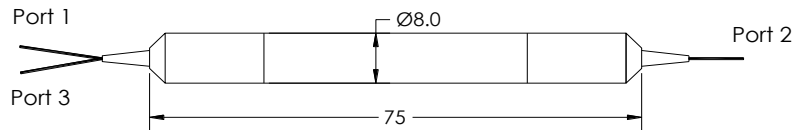
### Applications

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

Revised on 03/03/23

## Mechanical Dimensions (mm)

### 3-Port Circulator



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

### Ordering Information

Prefix	Type	Wavelength	Package	Fiber Type	Fiber Cover	Fiber Length	Connector
OC-	3 Port = 30 Special = 00	1310 = 3 1550 = 5 1590 = 9 C+L = 7 Special = 0	Standard = 1 Special = 0	Select from the table below	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

Fiber Type Selection Table:

01	<b>SMF -28</b>	34	<b>PM1550</b>	71	<b>GIF 50/125 μm</b>
02	<b>SMF -28e</b>	35	<b>PM1950</b>	72	<b>GIF 62.5 μm</b>
03	<b>Corning XB</b>	36	<b>PM1310</b>	73	<b>105/125 μm</b>
04	<b>SM450</b>	37	<b>PM400</b>	74	<b>FG105LCA</b>
05	<b>SM1950</b>	38	<b>PM480</b>	75	<b>FG50LGA</b>
06	<b>SM600</b>	39	<b>PM630</b>	76	<b>FG10LDA</b>
07	<b>Hi780</b>	40	<b>PM850</b>		
08	<b>SM800</b>	41	<b>PM980</b>		
09	<b>Hi980</b>	42	<b>PM780</b>		
10	<b>Hi1060</b>	43	<b>PM350</b>		
11	<b>SM300</b>	44	<b>PM405</b>		
12	<b>SM400</b>	45	<b>PM460</b>		