

BUY NOW 

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.

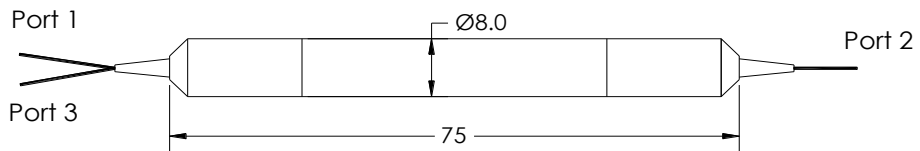
**** Continuous operation, for pulse operation call.

Applications

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

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