1310 / 1550 nm Polarization Maintaining Optical Circulator





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The OC Series 1310/1550 PM Optical Circulator is a non-reciprocal device that maintains polarization while redirecting light at 1310/1550 nm from port-to-port in only one direction while minimizing back reflection and back scattering in the reverse direction. Employing Agiltron's advanced micro optics design, it features low insertion loss, high extinction ratio, high isolation, compact package, and high stability. The excellent characteristics of this product make it an ideal choice for application in fiber amplifier systems, pump lasers, and optical fiber sensors.

Features

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

Applications

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

Specifications

Parameter	Min	Typical	Max	Unit
Operation Wavelength	1310±	±15, C-Band or L-	Band	nm
Insertion Loss ¹ @ λ op, Top, SOP (1 \rightarrow 2, 2 \rightarrow 3)			0.8	dB
Channel Isolation ² (2→1, 3→2)	38	45		dB
Wavelength Dependent Loss		0.15		dB
Extinction Ratio	18	22		dB
Directivity (1→3)		>50		dB
Return Loss ¹		>50		dB
Polarization Alignment	Во	th slow and fast a	xis	
Optical Power Handling		Maximum: 500		mW
Tensile Load		Maximum: 5		N
Operating Temperature Range		0 ~ 70		۰C
Storage Temperature		-40 ~ 85		۰C
Fiber Type		Panda PM 1550		
Fiber Length		> 1		m
Package Dimension		∞5.5 x 34(L)		mm

Note:

- 1. Excluding connectors
- 2. @λop, Top, SOP
- Fast axis alignment available

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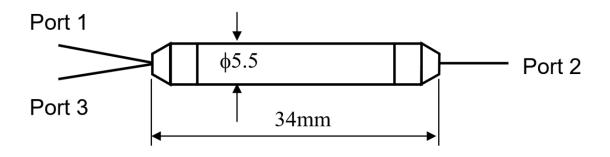
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Mechanical Dimensions (mm)



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

Ordering Information

Prefix	Туре	Wavelength	Grade	Package	Fiber Type	Fiber Cover	Fiber Length	Connector
ОСРМ-	3 Port = 30 Special = 00	1310 = 3 1550 = 5 C band = C L Band = L C+L = 2 Special = 0	Standard = 1 Special = 0	33 mm = 5 34-39 mm = 2 50 mm = 1 Special = 0	PM1550 = B Panda 80 = C Special = 0	Bare fiber=1 900um loose tube=3 Special=0	0.25m=1 0.5m=2 1.0 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

NOTE:

☐ PM1550 fiber works well for 1310nm