

1500 nm Polarization Maintaining Optical Circulator

Product Description

The OC Series 1500 PM optical circulator is a non-reciprocal device that maintains polarization while redirecting light at 1500 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.



Performance Specifications

Parameter		P Grade	A Grade
Configuration		Port 1 to Port 2 to Port 3	
Operation Wavelength (nm)		1310 ± 40 or 1550 ± 40	
Insertion Loss (dB) ¹	Typical	0.6	0.8
	Maximum	0.8	1.0
Channel Peak Isolation (dB)		40	
Channel Typical Isolation (dB)		30	
Channel Minimum Isolation (dB)		25	
Extinction Ratio (dB)	Minimum	20	
	Typical	25	
Directivity (dB)		>50	
Return Loss (dB) ¹		>55	
Power Handling (mW)		300	
Optical Power Handling		< 500	
Operating Temperature (°C)		0 ~ + 70	
Storage Temperature (°C)		-40 ~ + 85	
Fiber Type		Panda PM 400um fiber or custom fit	
Package Dimension (nm)		Φ5.5x L35	

¹Excluding connectors

Features

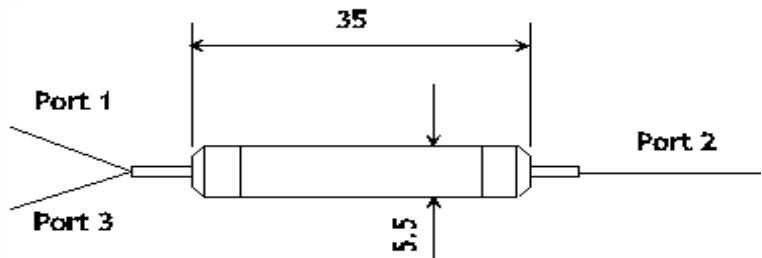
- Low Insertion Loss
- High Extinction Ratio
- High Channel Isolation
- Compact Package
- High Reliability & Stability
- Cost Effective

Applications

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

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Mechanical Dimensions (mm)



Ordering Information

OC-	Type	Wavelength	Grade	Package Type	Fiber Type	Fiber Length	Connector Type
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	3 Port =30 Special =00	1500 = 5 Special = 0	1	=1 Special=0	Panda 400um PM =3 Panda 400um PM with 900um loose tube =4 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