

Polarization-Maintaining Optical Circulator (1064nm 1310nm 1550nm)



FEATURES

- ✓ Low Insertion Loss
- ✓ High Return Loss
- ✓ High Isolation & Extinction Ratio
- ✓ High Reliability & Stability

APPLICATIONS

- EDFA& Raman Amplifier
- Fiber Sensor
- Fiber Instrument

Specifications of Polarization-Maintaining Optical Circulator (1064nm 1310nm 1550nm)

Type	Type A		Type B			
	3 Port	4 Port	3 Port	4 Port	3 Port	4 Port
Port Type						
Center Wavelength (nm)	1310 or 1550		1310 or 1550		1064	
Operating Wavelength Range (nm)	±30		±20		±5	
Typ. Insertion Loss at 23°C (dB)	0.7	1.1	0.6	1.0	1.8	2.2
Max. Insertion Loss at 23°C (dB)	0.9	1.3	0.8	1.2	2.1	2.5
Typ. Peak Isolation 23°C (dB)	46		30		30	
Min. Isolation at 23°C (dB)	40		20		25	
Min. Extinction Ratio at 23°C (dB)	22 (default), 28		20 (default), 28		20 (default), 28	
Min. Cross Talk (dB)			50			
Min. Return Loss (dB)			50			
Max. Optical Power (CW) (mW)			300			
Max. Tensile Load (N)			5			
Operating Temperature (°C)			-5~+70			
Storage Temperature (°C)			-40~+85			

Note:

1. High extinction ratio greater than 28dB is available only for the 3-port polarization-maintaining optical circulator.
2. Unless otherwise specified, the slow axis of the fiber is aligned with the key of the PM fiber connector.
3. Slow axis working and fast axis blocked as standard, while operating on both the slow and fast axis available on request.
4. Operating on both the slow and fast axis is available only for the 3-port PM optical circulators.
5. For the device with connector, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.
6. This polarization-maintaining optical circulator (1064nm 1310nm 1550nm) is customizable, and above specifications are subject to change without notice.
7. For product customization, please contact Lfiber's sales department for availability.

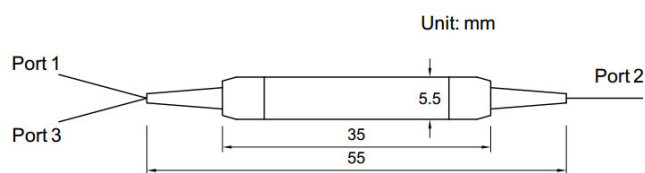


Optical Components, Fiber Optic Devices, Modules, and more.

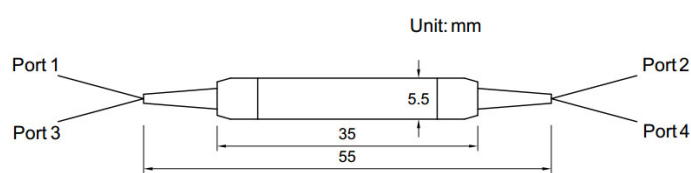
More support, visit: www.lfiber.com

Email: sales@lfiber.com

Package Dimensions & Routing Characteristics



Routing (Type A & Type B): 1 → 2, 2 → 3



Routing (Type A): 1 → 2, 2 → 3, 3 → 4;

Routing (Type B): 1 → 2, 2 → 3, 3 → 4, 4 → 1

Ordering Information of Polarization-Maintaining Optical Circulator (1064nm 1310nm 1550nm)

Center Wavelength	Port Type	Type	Axis Alignment	Fiber Type	Package Dimension	Pigtail Type	Fiber Length	Connector
1064nm	3-Port	Type A	Slow axis working and fast axis blocked	PM1550	Φ5.5×35mm	250μm bare fiber	0.5 m	None
1310nm	4-Port	Type B	Fast axis working and slow axis blocked	PM1310	Custom ...	900μm loose tube	0.8 m	FC/UPC
1550nm			Both axis working (only for 3-port)	PM980			1.0 m	FC/APC
							Custom ...	SC/UPC
								SC/APC
								LC/UPC
								LC/APC

About Axis Alignment of the PM Optical Fiber Circulator (1064nm 1310nm 1550nm)

“**Slow axis working and fast axis blocked**” means that light on just the slow axis is transmitted from port 1 to port 2, from port 2 to port 3, and also from port 3 to port 4; Fast axis light is blocked in the forward direction. In the backward direction (from port 2 to port 1, from port 3 to port 2, and from port 4 to port 3), both the slow and fast axis light are blocked.

“**Both axis working**” means that both the slow and fast axis light are transmitted in the forward direction, both the slow and fast axis light are blocked in the backward direction.



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