

High Power PM Isolator (1310nm, 1550nm, up to 20W)



FEATURES

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

APPLICATIONS

- Communication Systems
- Testing Instruments
- Polarization Maintaining (PM) Fiber Laser
- PM Fiber Sensor

Specifications of High Power PM Isolator (1310nm, 1550nm)

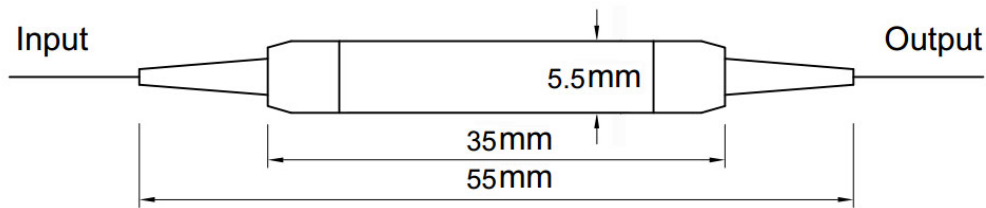
Stage	Single-stage	Dual-stage
Center Wavelength (nm)	1310 or 1550	
Operating Wavelength Range (nm)	±20	
Typ. Peak Isolation at 23°C (dB)	42	58
Min. Isolation at 23°C (dB)	28	48
Typ. Insertion Loss at 23°C (dB)	0.4	0.5
Max. Insertion Loss at 23°C (dB)	0.55	0.65
Extinction Ratio at 23°C (only for both axis working) (dB)	≥20	
Extinction Ratio at 23°C (only for fast axis blocked) (dB)	≥25	
Return Loss (dB)	≥50	
Max. Tensile Load (N)	5	
Fiber Type	Polarization-maintaining (PM) Panda fiber	
Operating Temperature (°C)	-5 to +70	
Storage Temperature (°C)	-40 to +85	

Note:

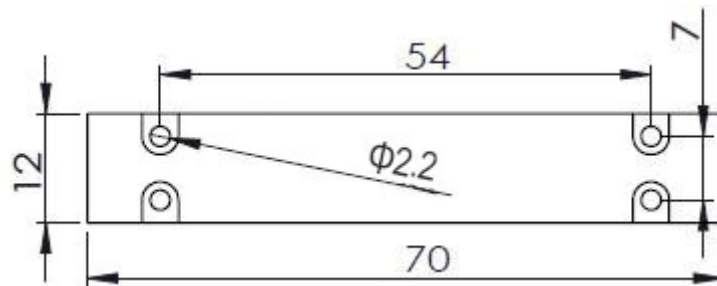
1. The high power PM isolator (1310nm, 1550nm) is customizable, and the above specifications are subject to change without notice.
2. For device with connectors, IL is 0.3dB higher, RL is 5.0dB lower, ER is 2.0dB lower.
3. Unless otherwise specified, the slow axis of the fiber is aligned with the key of the PM fiber connector.
4. Slow axis working and fast axis blocked as standard, while operating on both the slow and fast axis available on request.
5. Bare fiber should not support the weight of the connector. So that if any connectors needed, for the pigtail type it's better to choose the 900µm loose tube jacket instead of the 250µm bare fiber.
6. For CW high-power optical interconnection, we recommend fusion splice without connectors.
7. For product customization or special requirements, please contact Lfiber's sales department for availability.



Package Dimensions



Maximum Optical Power Handling: 10W



Maximum Optical Power Handling: 20W

Ordering Information for High Power PM Isolator (1310nm, 1550nm)

Center Wavelength	Stage	Axis Alignment	Package Dimensions	Pigtail Type	Fiber Length	Connector	Handling Power	Peak Power
1310nm	Single-stage	Slow axis working and fast axis blocked	$\phi 5.5 \times 35$ mm	250 μ m bare fiber	0.5 m	None	10W	10kW
1550nm	Dual-stage	Fast axis working and slow axis blocked	70x12x8 mm	900 μ m loose tube	0.8 m	FC/UPC	20W	20kW
Others		Both axis working			1.0 m	FC/APC		
					1.5 m	SC/UPC		
					Others	SC/APC		
						LC/UPC		
						LC/APC		
						Others		

About Axis Alignment of the High Power PM Fiber Optical Isolator (1310nm, 1550nm)

"Slow axis working and fast axis blocked" means that light on just the slow axis is transmitted and the fast axis light is blocked in the forward direction; Both the slow and fast axis light are blocked in the backward direction.

"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.



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

More support, visit: www.lfiber.com

Email: sales@lfiber.com