

High Power PM Isolator (980nm, 1030nm, 1053nm, 1064nm, up to 50W)



FEATURES

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

APPLICATIONS

- Fiber Laser
- Testing Instruments
- Mopa Fiber Laser
- Polarization Maintaining Fiber Amplifier

Specifications of High Power PM Isolator (980nm, 1030nm, 1053nm, 1064nm)

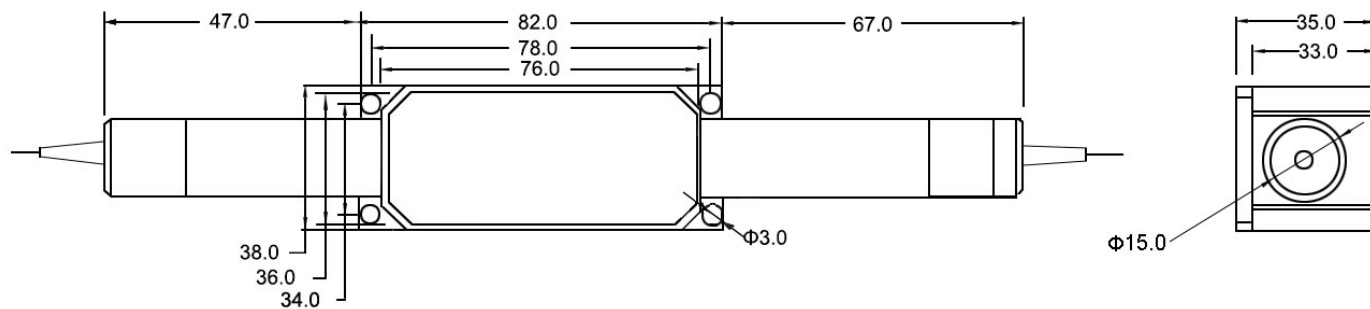
Center Wavelength (nm)	1064, 1053, 1030, or 980
Operating Wavelength Range (nm)	±5
Typ. Peak Isolation at 23°C (dB)	30
Min. Isolation at 23°C (dB)	25
Typ. Insertion Loss at 23°C (dB)	0.8
Max. Insertion Loss at 23°C (dB)	1
Extinction Ratio at 23°C (dB)	≥20
Return Loss (dB)	≥45
Optical Power (CW) Handling (W)	50
Max. Peak Power for ns Pulse (kW)	20
Max. Tensile Load (N)	5
Package Dimension (mm)	82x38x35
Operating Temperature (°C)	+10 to +50
Storage Temperature (°C)	0 to +60

Note:

1. The high power PM isolator (980nm, 1030nm, 1053nm, 1064nm) 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. For CW high-power optical interconnection, we recommend fusion splice without connectors.
6. 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.
7. For product customization or special requirements, please contact Lfiber's sales department for availability.



Package Dimensions



Ordering Information for High Power PM Isolator (980nm, 1030nm, 1053nm, 1064nm)

Center Wavelength	Axis Alignment	Fiber Type	Package Dimensions	Pigtail Type	Fiber Length	Connector	Handling Power
980 nm	Slow axis working and fast axis blocked	Panda PM fiber	82×38×35 mm	250μm bare fiber	0.5 m	None	30W
1030 nm	Fast axis working and slow axis blocked	Specified		900μm loose tube	0.8 m	FC/UPC	50W
1053 nm	Both axis working				1.0 m	FC/APC	
1064 nm					1.5 m	SC/UPC	
Others					Others	SC/APC	
						LC/UPC	
						LC/APC	
						Others	

About Axis Alignment of the High Power PM Fiber Optical Isolator (980nm, 1030nm, 1053nm, 1064nm)

"**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.

