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

FEATURES

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

APPLICATIONS

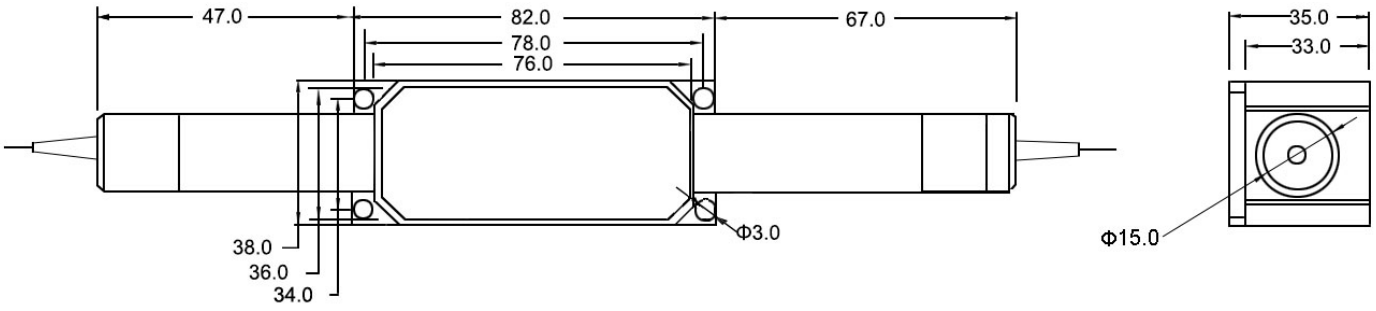
- ➢ Fiber Laser
- ➢ Testing Instruments
- ➢ Mopa Fiber Laser
- ➢ Fiber Amplifier

Specifications of High Power Optical Isolator (980nm, 1030nm, 1053nm, 1064nm)	
Center Wavelength (nm)	1064, 1053, 1030, or 980
Operating Wavelength Range (nm)	±5
Typ. Peak Isolation at 23℃ (dB)	30
Min. Isolation at 23℃ (dB)	25
Typ. Insertion Loss at 23℃ (dB)	0.8
Max. Insertion Loss at 23℃ (dB)	1
Polarization Dependent Loss at 23℃	≤0.2
Return Loss (dB)	≥45
Optical Power (CW) Handling (W)	30 or 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 optical 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.
3. For CW high-power optical interconnection, we recommend fusion splice without connectors.
4. 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.
5. For product customization or special requirements, please contact Lfiber's sales department for availability.

Package Dimensions



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

Center Wavelength	Fiber Type	Package Dimensions	Pigtail Type	Fiber Length	Connector	Handling Power
980 nm	HI060	82×38×35 mm	250μm bare fiber	0.5 meter	None	30W
1030 nm	Specified		900μm loose tube	0.8 meter	FC/UPC	50W
1053 nm				1.0 meter	FC/APC	
1064 nm				1.5 meter	SC/UPC	
Others				Specified	SC/APC	
					LC/UPC	
					LC/APC	
					Others	