Key Features

- Low Insertion Loss
- High Power Handling
- High Isolation
- PM and Non-PM are available
- Fiber can be customized
- High Reliability
- Excellent Temperature Stability

Applications

- High Power Fiber Lasers
- High Power Fiber Amplifier
- Instrumentation
- Test and Measurement
- Fiber Amplifier Lab Research

2000nm High Power SM In-line Optical Isolator

The 2000nm High Power SM In-line Optical Isolator 30W is a compact, high performance light wave Polarization Insensitive component, it guides optical light in one direction and eliminates back reflection and back scattering in the reverse direction at any polarization sate. They're characterized with low insertion loss, high isolation, high power handling, high return loss, excellent environmental stability and reliability. Optical Isolators are optical devices that allow light to be transmitted in one direction only. They are most often used to prevent any reflected light from entering the source, thus preventing any feedback problems; it has been widely used in fiber laser system.

PM and non-PM types are available, fiber can be customized, with power conditions of CW or Pulse and Power Handling of 5W, 10W, 20W, 30W can be customized.

If you do not see a standard isolator that meets your needs, we welcome the opportunity to review your desired specification and quote a custom isolator. Requests for custom fiber pigtails, different wavelengths and handling power of operation or other specific needs will be readily addressed.

For more Info

Please contact us at:

Tel: +86-755-23736280

Fax: +86-755-26746512

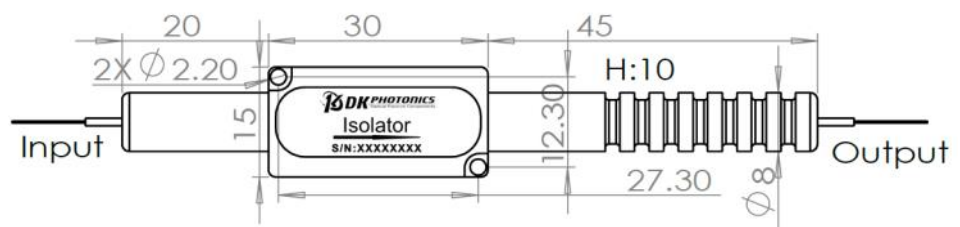E-mail: sales@dkphotonics.com

https://www.dkphotonics.com
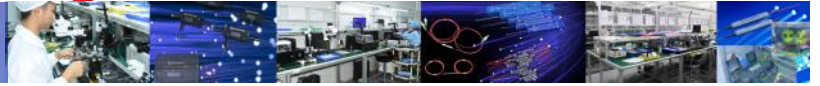
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

Package Dimension

*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.

2000nm High Power SM In-line Optical Isolator

Performance Specifications

Parameters	Unit	Values
Central Wavelength	nm	1940, 2000, 2050
Operating Wavelength Range	nm	±30
Typ. Peak Isolation	dB	28
Min. Isolation (at 25℃, λc ± 50 nm)	dB	16
Typ. Insertion Loss	dB	0.8
Max. Insertion Loss (at 25℃, λc ± 20 nm)	dB	1.2
Max. PDL (for SM fiber)	dB	0.15
Min. Return Loss	dB	50
Max. Power Handling (CW)	W	10, 15
Max. Peak Power for ns Pulse	kW	5, 10, 20 (for typical pulse application)
Max. Tensile Load	N	5
Fiber Type	-	SMF-28e or SM1950, SM-GDF-10/130-15M, LMA-GDF-25/250-09M fiber
Operating Temperature	°C	0 ~ + 70
Storage Temperature	°C	-40 ~ +85

1. Above specification are for device without connector and may change without notice.

2. IL is 0.3 dB higher and RL is 5 dB lower for each connector added.

3. The pass optical power is 2 W only for connector added, the connector is only used for performance testing at low power, higher power requires splicing fibers.

4. If there is pulse application, please be sure to inform us of pulse energy and peak power.

Order information   P/N: HPPII-①-②-③-④-⑤-⑥-⑦

When you inquire, please provide the correct P/N number according to our ordering information and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250μm bare fiber pigtail. For high power applications, we recommend direct splicing without connectors.

① Wavelength	② Optical Power	③ Power Type	④ Fiber Type	⑤ Pigtails Diameter	⑥ Fiber Length	⑦ Connector
1940:1940nm 2000:2000nm 2050:2050nm XX: Others	10:10W 20:20W 30:30W XX: Other	P: Pulsed C: Continuous Wave	XXX: fiber code	25: bare fiber 90:900μm Loose Fiber XX: Others	08:0.8m 10:1.0m XX: Other	00: None FP: FC/PC FA: FC/APC XX: Others

Part Number Example: HPPII-2000-15-P-10/130/15D-25-08-00

Description: 2000nm High Power SM In-line Optical Isolator - 15W, <20kW pulsed power, SM-GDF-10/130-15M fiber, with bare fiber & 0.8m length, no connector.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.