



- Low insertion loss
- High isolation
- Optical path epoxy free
- Low PDL & PMD
- High Reliability
- Excellent Temperature Stability

Applications

- WDM System
- Fiber Amplifiers
- Fiber Lasers
- Transmitters



Polarization Insensitive Isolator utilizes Faraday Effect of Magneto optical crystal. It guides optical light in one direction and eliminates back reflection and back scattering in the reverse direction at any polarization sate. The unique manufacturing process and optical path epoxy-free design enhance the device's high-power handling capability. The devices are characterized with low insertion loss, high isolation, high return loss, excellent environmental stability and reliability and low cost. It has been widely used in EDFAs, Raman amplifiers, DWDM systems, Fiber lasers, transmitters and other fiber optic communication equipments to suppress back reflection and back scattering.

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

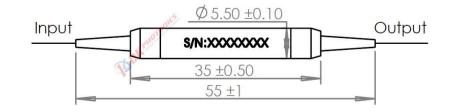
E-mail: sales@dkphotonics.com

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.





1080nm Polarization Insensitive Isolator

Performance Specifications

| Parameter | Unit | Values | | | | | |
|-----------------------------|------|-----------|-----|-----|------|--|--|
| Stage | - | Single | | Du | Dual | | |
| Grade | - | Р | А | Р | А | | |
| Operating Wavelength | nm | 1080 | | | | | |
| Band Width | nm | ±5 | | | | | |
| Typ. Peak Isolation at 23°C | dB | 42 | 38 | 55 | 52 | | |
| Min. Isolation at 23°C | dB | 35 | 32 | 45 | 42 | | |
| Typ. Insertion Loss at 23°C | dB | 1.5 | 1.6 | 2.3 | 2.6 | | |
| Max. Insertion loss at 23°C | dB | 1.8 | 2.2 | 3.2 | 3.4 | | |
| Return Loss (In/Out) | dB | > 50/50 | | | | | |
| PDL | dB | < 0.1 | | | | | |
| PMD | ps | <0.15 | | | | | |
| Maximum Power Handling (CW) | mW | 200 100 | | | | | |
| Max. Tensile Load | Ν | 5 | | | | | |
| Fiber Type | - | 1060-XP | | | | | |
| Operating Temperature | °C | 0 ~ + 65 | | | | | |
| Storage Temperature | °C | -40 ~+85 | | | | | |
| Dimensions | mm | Φ5.5× L35 | | | | | |

1. Above specifications are for device without connector.

2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

3. For this 1080nm Isolator, Due to high IL, it is recommended to use average power of <200mW for single stage and <100mW for dual stage. If you need higher handle power, please look for our 1080nm TGG High power isolator.

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

Order information P/N: ISO -①-②-③-④-⑤-⑥-⑦-⑧

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.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------------------------------------|--------------------------------------|-------------------------|----------------|-------------|-----------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------|
| Туре | Wavelength | Grade | Power Handling | Fiber Type | Pigtails Diameter | Fiber Length | Connector |
| IS: Single stage IU: Dual stage | 64:1064nm 80:1080nm XX: Others | P:P Grade A: A Grade | L: lower power | 06X:1060-XP | 25:250µm bare fiber 90:900µm Loose Fiber XX: Others | 05:0.5m 10:1.0m 15:1.5m XX: Others | 00: None FP: FC/PC FA: FC/APC LA: LC/APC XX: Others |

Part Number Example: ISO-IS-80-P-L-06X-25-10-00

Description: 1080nm Polarization Insensitive Optical Isolator-300mW, Single Stage, P grade, with 1060-XP 250um bare fiber, 1.0m length fiber pigtails, without connectors at all ports.

Ordering Information for Custom Parts

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