

L Band Polarization Insensitive Isolator

Key Features

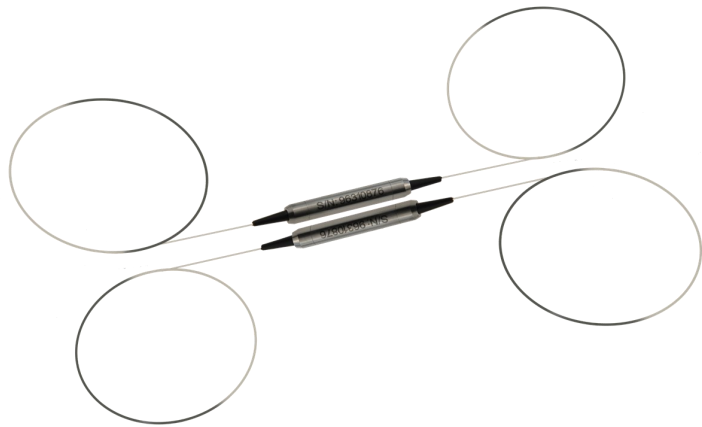
- Low insertion loss
- High isolation
- Optical path epoxy free
- Low PDL & PMD
- High Reliability
- Excellent Temperature Stability

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 state. 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.

Applications

- DWDM/CWDM
- EDFA
- Raman Amplifiers
- Fiber Lasers
- Transmitters



For more Info

Please contact us at:

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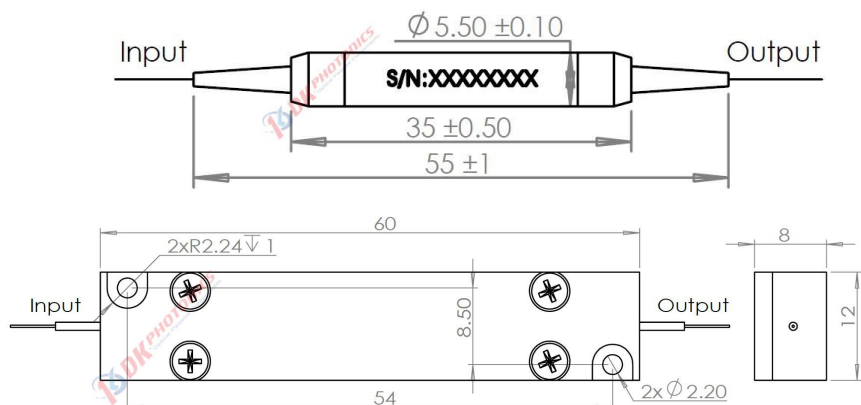
Add.:

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.

L Band Polarization Insensitive Isolator

Performance Specifications

| Parameter | Unit | Values | | | |
|-----------------------------|------|----------------------------------|--------|--------|--------|
| Stage | - | Single | | Dual | |
| Grade | - | P | A | P | A |
| Operating Wavelength | nm | L Band | | | |
| Band Width | nm | ±15 | | | |
| Typ. Peak Isolation at 23°C | dB | 36 | 33 | 45 | 40 |
| Min. Isolation at 23°C | dB | 30 | 26 | 40 | 36 |
| Typ. Insertion Loss at 23°C | dB | 0.3 | 0.4 | 0.4 | 0.5 |
| Max. Insertion loss at 23°C | dB | 0.5 | 0.7 | 0.6 | 0.8 |
| Return Loss (In/Out) | dB | >60/55 | >55/50 | >60/55 | >55/50 |
| PDL | dB | < 0.05 | < 0.1 | < 0.05 | < 0.1 |
| PMD | ps | 0.2(0.05 available upon request) | | | |
| Maximum Power Handling(CW) | W | 0.3, 1, 3, 5 | | | |
| Max. Tensile Load | N | 5 | | | |
| Fiber Type | - | SMF-28e fiber, or other | | | |
| Operating Temperature | °C | -20~+70 | | | |
| Storage Temperature | °C | -40 ~+85 | | | |
| Dimensions | mm | Φ5.5× L35(<10W), 60x12x8(>10W) | | | |

- Above specifications are for device without connector.
- For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower. Power transmits through the connector less than 2W.

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 |
|------------------|--------------------------|-------------------------|-----------------|--------------|---|---|---|
| Type | Wavelength | Grade | Power Handling | Fiber Type | Pigtails Diameter | Fiber Length | Connector |
| IS: Single stage | LB: L band XX: Others | P:P Grade A: A Grade | L:<0.3W 1:1W | S28: SMF-28e | 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-LB-P-L-S28-90-10-FA

Description: L Band single stage fiber optic isolator, P grade, 0.3W power handling, with 0.9mm OD loose tube, 1.0m length fiber pigtails, FC/APC connectors at all ports.

Ordering Information for Custom Parts

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