

2050/1570 nm SM WDM/Isolator Hybrid Combination

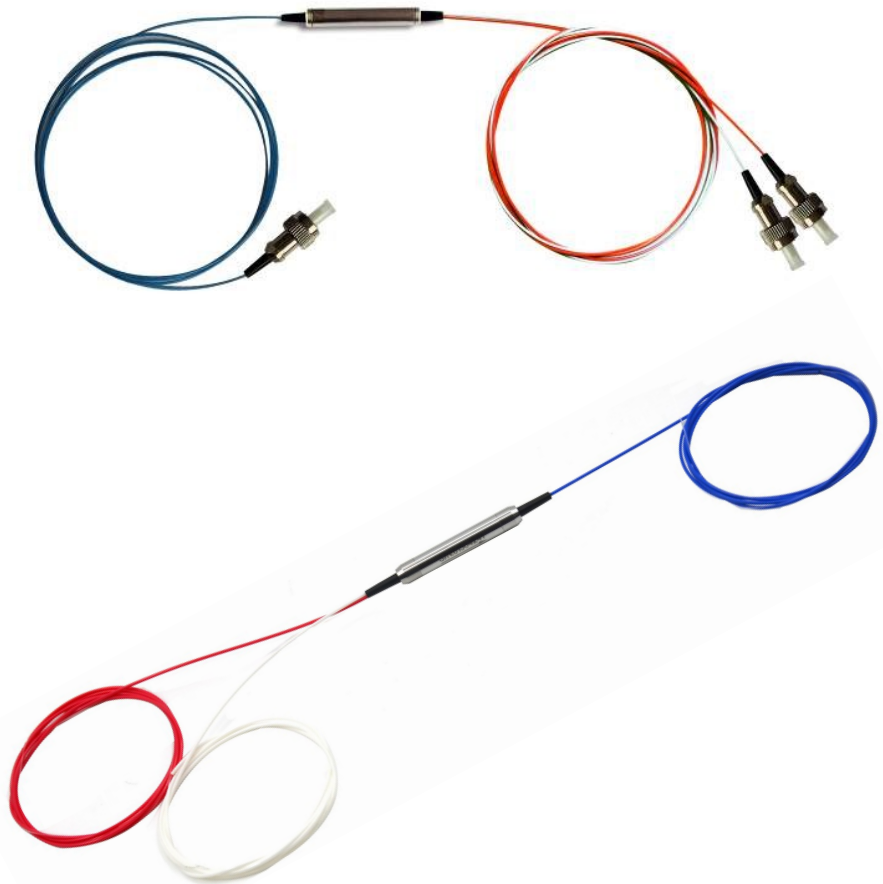
Key Features

- Compact Size
- Low insertion loss
- High channel Isolation
- High stability and reliability

DK Photonics' WIH is a combination of a WDM Filter and a polarization insensitive optical isolator. The WDIH is a low cost model with excellent performance including low insertion loss, high isolation, high return loss, low polarization dependent loss (PDL), and low polarization mode dispersion (PMD). This product offers integrated solution to fiber amplifier application by combining more functions into a very compact package.

Applications

- Fiber laser
- Fiber amplifier
- Communications
- Laboratory R&D



For more Info

Please contact us at:

Tel: +86-755-23736280

Fax: +86-755-26746512

E-mail: sales@dkphotonics.com

<https://www.dkphotonics.com>

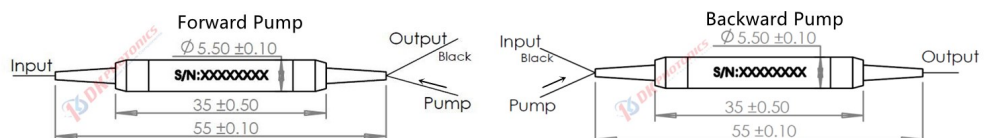
Add.:

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.

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Performance Specifications

| Parameter | Unit | Values | |
|--|--------------------|------------------------------|------------|
| | | Single Stage | Dual Stage |
| Stage of Isolator | - | Single Stage | Dual Stage |
| Signal Central Wavelength (λ_c) | nm | 1940, 2000, 2050 | |
| Max. Insertion Loss at 23°C, $\lambda_c \pm 20$ nm | nm | 1.5 | 1.8 |
| Min. Isolation at 23°C, $\lambda_c \pm 50$ nm (Isolator) | nm | 16 | 35 |
| Min. Isolation (WDM) | Signal Channel | 25 | |
| | Pump Channel | 12 | |
| Pump Wavelength Range | nm | 1520~1590 | |
| Max. Insertion Loss (Pump to Common) | dB | 1.0 | |
| Max. PDL | dB | 0.15 | |
| Min. Return Loss | dB | 50 | |
| Max. Power Handling (CW) | W | 0.5, 2, 3, 10 | |
| Max. Peak Power for Pulse | kW | 1, 5, 10 | |
| Max. Tensile Load | N | 5 | |
| Fiber Type | Pump port | SMF-28e fiber or specified | |
| | Common Signal port | SM1950 fiber or specified | |
| Operating Temperature | °C | -5 to +70 | |
| Storage Temperature | °C | -40 to +85 | |
| Package Dimensions | mm | Φ5.5× L35(<5W), 60x12x8(>5W) | |

- 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.
- If there is pulse application, please be sure to inform us of pulse energy and peak power.
- If you have questions about the axial direction, please contact us.

Order information P/N: WIH-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.

| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |
|---|----------------------------------|---|-------------------------------------|---|---|--|
| Wavelength | Stage | Optical Power | Pump Configuration | Pigtail Diameter | Fiber Length | Connector |
| 5057:2050 signal/1570 pump XX: other | S: Single Stage D: Dual Stage | L:<0.5W 1:1W 3:3W 5:5W 10:10W | F: Forward Pump B: Backward Pump | 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 SP: SC/PC SA: SC/APC XX: Others |

Part Number Example: WIH-5057-S-F-90-10-FA

Description: SM WDM/ Isolator Hybrid Combination, 2050nm signal/1570nm pump, single stage isolator, SMF-28e fiber at 1570nm port, other with SM1950 fiber, with 0.9mm OD loose tube, 1.0m fiber length, and 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.