

980/1550nm WDM/Isolator Hybrid Combination

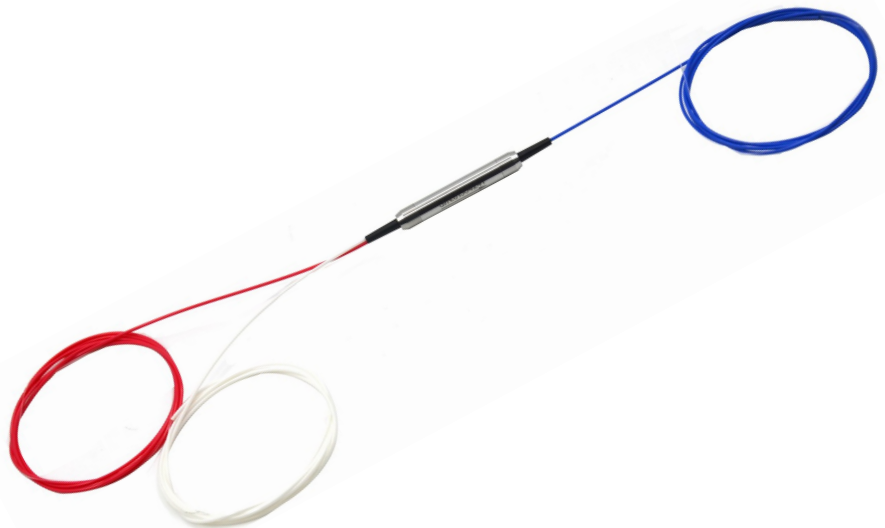
DK Photonics' s WIH is a combination of a WDM Filter and a polarization insensitive optical isolator. The WDIH is a low cost model with excellent performance including low insertion loss, high isolation, high return loss, low polarization dependent loss (PDL), and low polarization mode dispersion (PMD).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

Key Features

- Wide Operating Wavelength Range
- Compact Size
- Low insertion loss
- High channel Isolation
- High stability and reliability
- Epoxy free on optical path

Applications

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



For more Info

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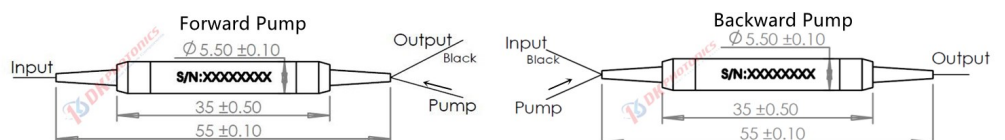
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

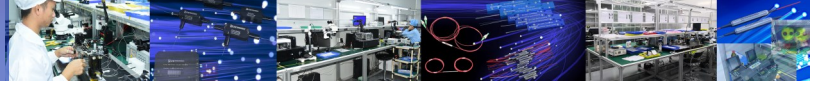
Dahe Road, Longhua Dis.,

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.



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Performance Specifications

Parameter	Unit	Values	
Stage of Isolator	-	Single Stage	Dual Stage
Signal Central Wavelength (λ_c)	nm	1550, 1590	
Signal Wavelength Range	nm	1528~1565(C Band), 1570~1605(L Band)	
Max. Signal Insertion Loss, λ_c , @ 23°C	nm	1.1	1.3
Min. Signal Isolation, λ_c , @ 23°C(Isolator)	nm	31	45
Min. Isolation (WDM)	Signal Channel	dB	
	Pump Channel	dB	
Pump Wavelength Range	nm	960~990	
Max. Insertion Loss (Pump to Common)	dB	0.6	
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	-	1060-XP fiber or Specified for Pump port SMF-28e fiber or Specified for Common & Signal port	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	
Package Dimensions	mm	Ø5.5 x L35	

- 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.

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 250 μ m bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦
Wavelength	Stage	Optical Power	Pump Configuration	Pigtail Diameter	Fiber Length	Connector
59:1550 signal/980 pump	S: Single Stage D: Dual Stage	L: <0.5W 1:1W 3:3W 5:5W 10:10W	F: Forward Pump B: Backward Pump	25:250 μ m bare fiber 90:900 μ m 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-59-S-L-F-90-10-FA

Description: 980/1550nm WDM/Isolator Hybrid Combination ,0.5W handling power, 1550nm signal/980nm pump, single stage isolator, 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.