

980/1030nm WDM/Isolator Hybrid Combination

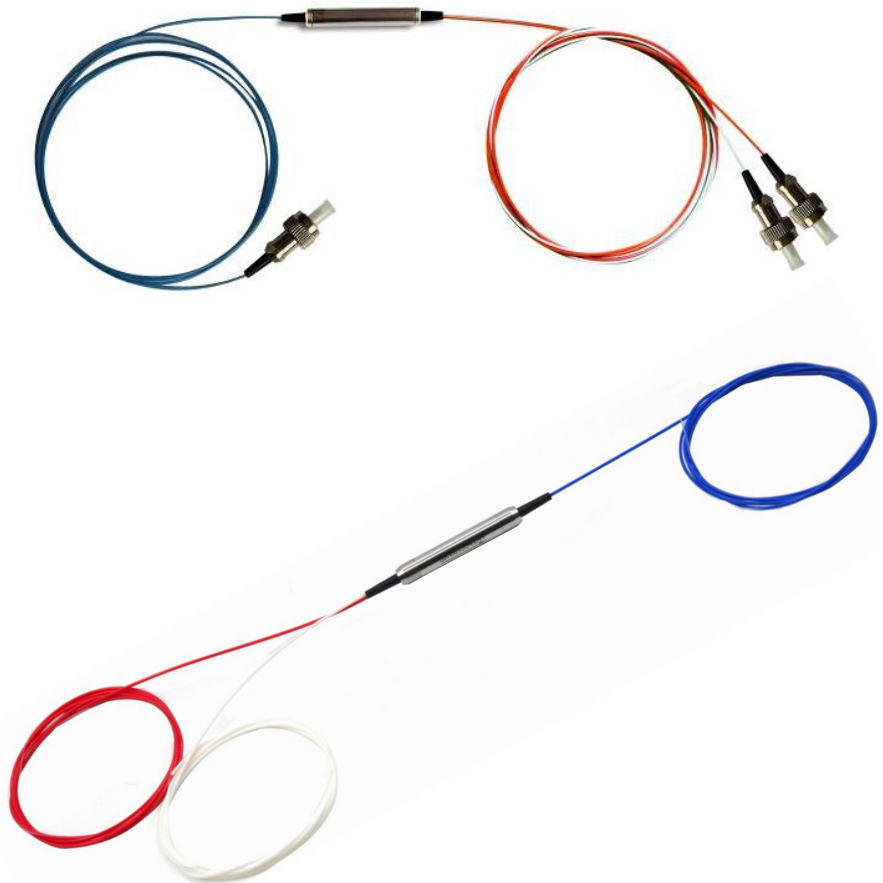
Key Features

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

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 fiber amplifier application by combining more functions into a very compact package.

Applications

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



For more Info

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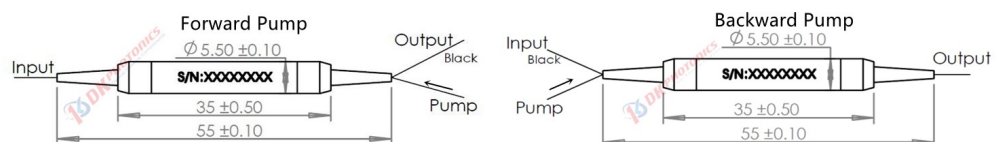
Add.:

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.

980/1030nm WDM/Isolator Hybrid Combination

Performance Specifications

Parameter	Unit	Values
Stage of Isolator	-	Single Stage
Signal Central Wavelength (λ c)	nm	1030
Signal Wavelength Range	nm	+/-5
Max. Signal Insertion Loss, λ c, @ 23°C	nm	3.8
Min. Signal Isolation, λ c, @ 23°C (Isolator)	nm	30
Min. Isolation (WDM)	Signal Channel	25
	Pump Channel	12
Pump Wavelength Range	nm	960~990
Max. Insertion Loss (Pump to Common)	dB	0.7
Max. PDL	dB	0.15
Min. Return Loss	dB	50
Max. Power Handling (CW)	mW	50
Max. Peak Power for Pulse	kW	1, 5, 10
Max. Tensile Load	N	≤ 5
Fiber Type	-	1060-XP Fiber or Specified
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85
Package Dimensions	mm	$\varnothing 5.5 \times L35$

- 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.
- For this 1030nm Isolator, Due to high IL, it is recommended to use average power of <50mW. If you need higher handle power, please look for our TGG based High power isolator.
- 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
39:1030 signal/980 pump	S: Single Stage	L: Refer to the above table	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-39-S-L-F-90-10-FA

Description: 980/1030nm WDM/Isolator Hybrid Combination ,0.05W handling power, 1030nm 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.