

2000/1570 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

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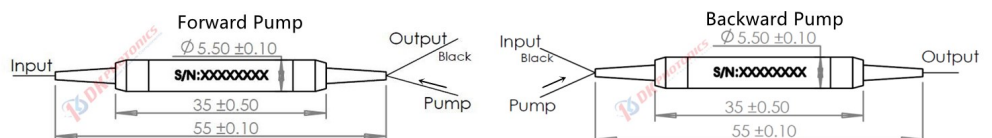
Add.:

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	
		Single Stage	Dual Stage
Stage of Isolator	-		
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	$\Phi 5.5 \times L35 (<5W)$, $60 \times 12 \times 8 (>5W)$	

- 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 250 μ m bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦
Wavelength	Stage	Optical Power	Pump Configuration	Pigtail Diameter	Fiber Length	Connector
9457:1940 signal/1570 pump	S: Single Stage	L:<0.5W 1:1W	F: Forward Pump B: Backward Pump	25:250 μ m bare fiber 90:900 μ m Loose Fiber	05:0.5m 10:1.0m	00: None FP: FC/PC
2057:2000 signal/1570 pump	D: Dual Stage	3:3W 5:5W		XX: Others	15:1.5m XX: Others	FA: FC/APC SP: SC/PC
XX: other		10:10W				SA: SC/APC XX: Others

Part Number Example: WIH-2057-S-F-90-10-FA

Description: SM WDM/ Isolator Hybrid Combination, 2000nm 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.