

## 980/1064nm WDM/Tap Coupler/Isolator Hybrid Combination

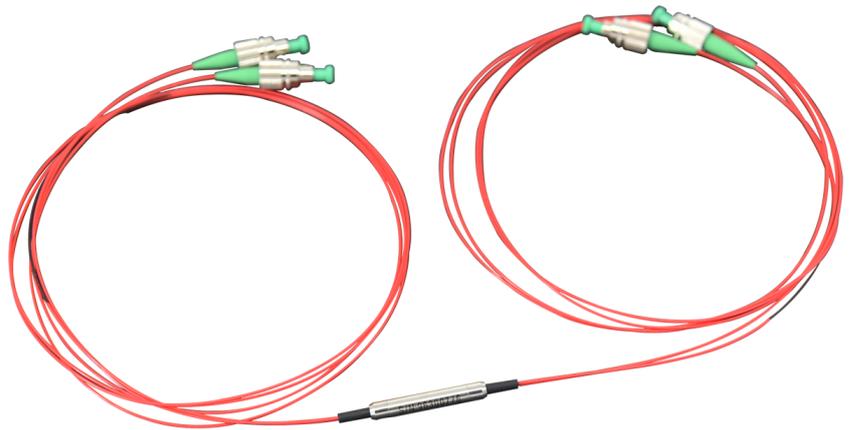
### Key Features

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

### Applications

- Fiberoptic Amplifiers
- WDM Systems
- Fiber optic Instruments
- Transmitters and Fiber Lasers
- Laboratory R&D

DK Photonics's WDM/Tap Coupler/Isolator Hybrid Combination is a combination of a wavelength division multiplexer, tap coupler and an isolator in a compact package. This product has an extremely low insertion loss, a very stable tap-coupling ratio, high isolation, and high return loss. This product offers integrated solution to fiber amplifier application by combining more functions into a very compact package.



## For more Info

### Please contact us at:

Tel: +86-755-23736280

Fax: +86-755-26746512

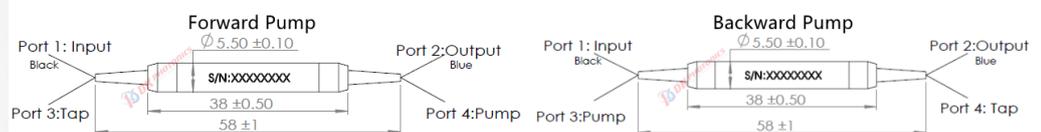
E-mail: [sales@dkphotonics.com](mailto:sales@dkphotonics.com)

<https://www.dkphotonics.com>

Add.:

4F, Bldg. 18, Qinghu Industrial Park,  
 Dahe Road, Longhua Dis.,  
 Shenzhen, China 518109

### Package Dimension:



PS: For forward pump, signal wavelength is polarization independent. For backward pump, signal wavelength is Polarization dependent.

\*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.

**980/1064nm WDM/Tap Coupler/Isolator Hybrid Combination**
**Performance Specifications**

Parameter	Unit	Values	
Stage of Isolator	-	Single Stage	
Signal Central Wavelength ( $\lambda_c$ )	nm	1064	
Signal Wavelength Range	nm	$\pm 5$	
Max. Signal Excess Loss, $\lambda_c$ , @ 23°C	nm	2.5	
Min. Signal Isolation, $\lambda_c$ , @ 23°C(Isolator)	nm	32	
Tap Ratio	%	1~50	
Tap Channel Typ. Loss	dB	19.0~21.8(1% tap)	
Min. Isolation (WDM)	Signal Channel	dB	25
	Pump Channel	dB	12
Pump Wavelength Range	nm	960~990	
Max. Insertion Loss (Pump to Common)	dB	0.7	
Max. PDL	dB	0.3	
Min. Return Loss	dB	50	
Max. Power Handling (CW)	mW	200	
Max. Peak Power for Pulse	kW	1, 5, 10	
Max. Tensile Load	N	$\leq 5$	
Fiber Type	-	1060-XP or Specified	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	
Package Dimensions	mm	$\varnothing 5.5 \times L38$	

- 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 <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: WTIH -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 250 $\mu$ m bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦	⑧
Wavelength	Stage of Isolator	Optical Power	Tap Ratio	Pump Configuration	Pigtail Diameter	Fiber Length	Connector
69:1064 signal/980 pump	S: Single Stage	L: Refer to the above table	01:1% Tap 02:2% Tap 05:5% Tap	F: Forward Pump B: Backward Pump	25:250 $\mu$ m bare fiber 90:900 $\mu$ m Loose Fiber XX: Others	05:0.5m 10:1.0m 15:1.5m XX: Others	00: None FP: FC/PC FA: FC/APC SA: SC/APC XX: Others

**Part Number Example:** WTIH-69-S-L-01-F-90-10-FA

**Description:** SM WDM/Tap Coupler/Isolator Hybrid Combination, 1064nm signal/980nm pump, power<200mW, single stage isolator, 1% tap, forward pump, 1060-XP 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.