

## 1064/980nm High Power WDM & Tap & TGG Isolator Hybrid Combination (HPWTIH, 1μm fiber laser, 20W)

DK Photonics' WDM/Tap Coupler/Isolator Hybrid Combination is a combination of a wavelength division multiplexer, tap coupler and an isolator in a compact package. All input and output fibers are polarization maintaining. 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 laser and Fiber amplifier application by combining more functions into a very compact package.

### Key Features

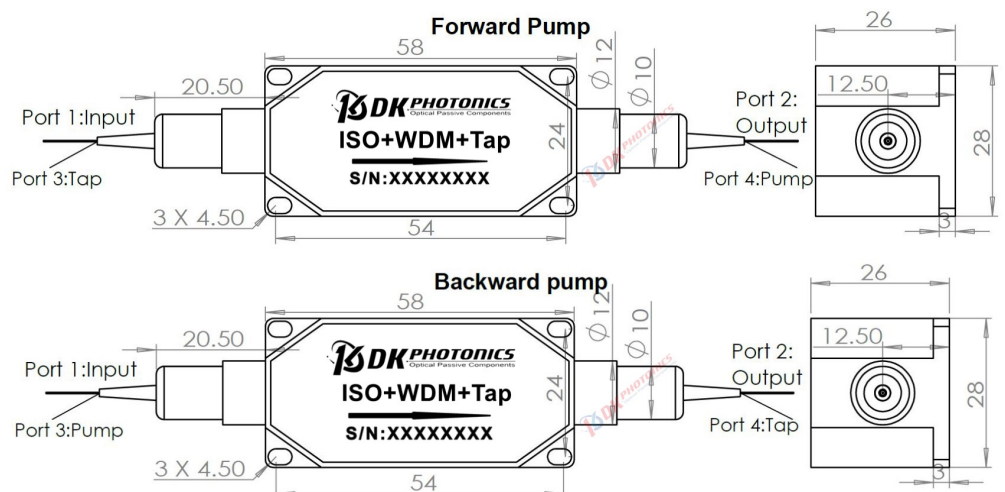
- Compact Size
- Low insertion loss
- High channel Isolation
- High stability and reliability
- Epoxy free on optical path

### Applications

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



### 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.

## 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

**1064/980nm High Power WDM & Tap & TGG Isolator Hybrid Combination (HPWTIH, 1μm fiber laser, 20W)**
**Performance Specifications**

Parameter	Unit	Values
Signal Central Wavelength ( $\lambda_c$ )	nm	1030, 1040, 1064
Signal Wavelength Range	nm	$\lambda \pm 10$
Max. Signal Excess Loss, $\lambda_c$ , @ 23°C	nm	1.2
Min. Signal Isolation, $\lambda_c$ , @ 23°C (Isolator)	nm	26
Min. Isolation (WDM)	Signal Channel	dB
	Pump Channel	dB
Signal Tap Ratio	%	1~50
Pump Wavelength Range	nm	960~990
Max. Insertion Loss (Pump to Common)	dB	0.7
Max. PDL (SM fiber)	dB	0.15
Min. Return Loss	dB	50
Max. Power Handling (CW)	W	2, 5, 10, 20
Max. Peak Power for Pulse	kW	1, 5, 10
Max. Tensile Load	N	5
Fiber Type	-	1060-XP or 10/125 SC fiber or specified
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

- 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: HPWTIH -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	Optical Power	Tap Ratio	Pump Configuration	Pigtail Diameter	Fiber Length	Connector
69:1064 signal/980 pump	L:<0.5W 1:1W	01:1% Tap 02:2% Tap	F: Forward Pump	25:250μm bare fiber 90:900μm Loose Fiber	05:0.5m 10:1.0m 15:1.5m	00:None FP: FC/PC FA: FC/APC XX: Others
39:1030 signal/980 pump	3:3W 5:5W	05:5% Tap		XX: Others	XX: Others	XX: Others
49:1040 signal/980 pump	10:10W 20:20W					

**Part Number Example:** HPWTIH-69-5-01-F-25-10-00

**Description:** HP WDM/Tap Coupler/Isolator Hybrid Combination ,5W handling power, <10kW peak power, forward pump, 1064nm signal/980nm pump, 1% tap, 1060-XP fiber for all port, bare fiber, 1.0m fiber length, and no connector.

**Ordering Information for Custom Parts**

If you need to customize other specifications, please provide detailed description for your requirement.