

2050/1570nm SM WDM/Tap Coupler Hybrid Combination

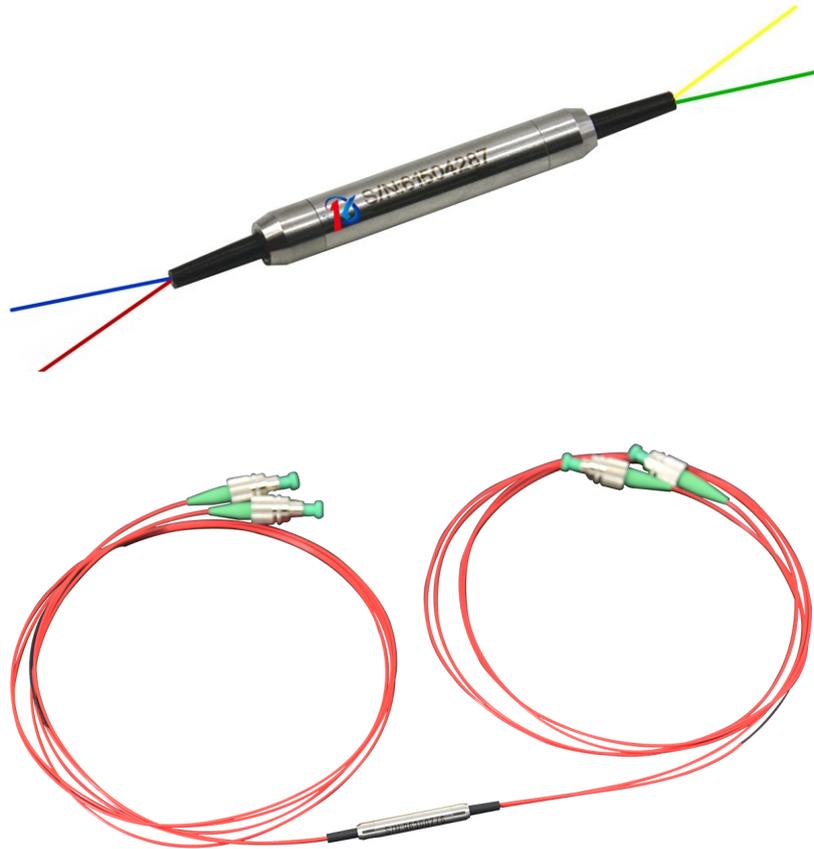
Key Features

- Compact Size
- Low insertion loss
- High channel Isolation
- High Extinction Ratio
- High stability and reliability

DK Photonics' WDM/Tap Coupler Hybrid Combination is a combination of a wavelength division multiplexer and tap coupler 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 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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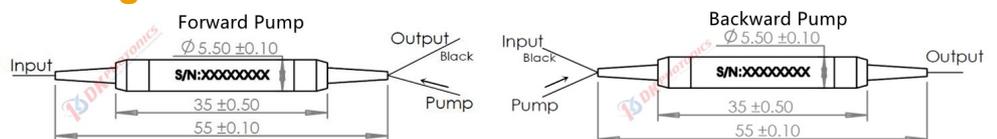
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

Package Dimension:



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.

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Performance Specifications

Parameter	Unit	Values	
Signal Central Wavelength (λ_c)	nm	1940, 2000, 2050	
Signal Wavelength Range	nm	± 40	
Max. Signal Excess Loss, λ_c , @ 23°C	nm	1.8	
Tap Ratio	%	1~50	
Tap Channel Typ. Loss	dB	1%(19.5~22), 5%(13.5 ~ 16.0)	
Min. Isolation (WDM)	Signal Channel	dB	25
	Pump Channel	dB	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 ns Pulse if any	kW	1, 5, 10	
Max. Tensile Load	N	5	
Fiber Type	Pump port	-	SMF-28e fiber or specified
	Common Signal and tap port	-	SM1950 fiber or specified
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	
Package Dimensions	mm	$\varnothing 5.5 \times L35(<5W)$, $60 \times 12 \times 8(>5W)$	

- 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.

Order information P/N: WTH -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	Optical Power	Tap Ratio	Pump Configuration	Pigtail Diameter	Fiber Length	Connector
5057:2050 signal/1570 pump XX: other	L:<0.5W 1:1W 3:3W 5:5W 10:10W	01:1% Tap 02:2% Tap 05:5% Tap	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 SA: SC/APC XX: Others

Part Number Example: WTH-5057 -L-01-B-90-10-FA

Description: SM WDM/Tap Coupler Hybrid Combination, 2050nm signal/1570nm pump, 1% tap, forward pump, 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.