SM Hybrid Components

2000/1570nm SM WDM/Tap Coupler Hybrid Combination

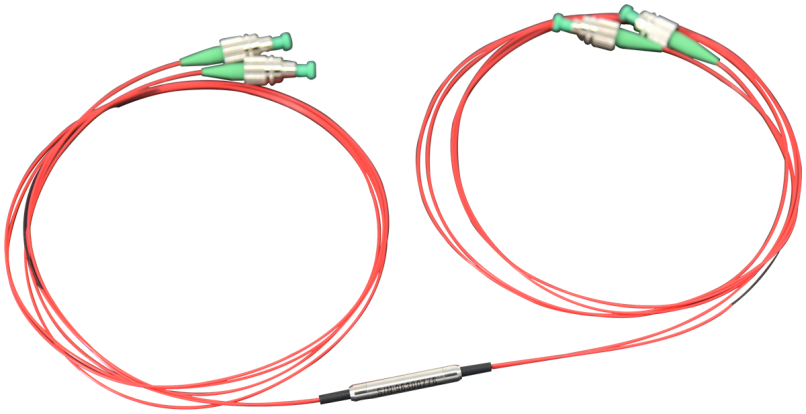
Key Features

- 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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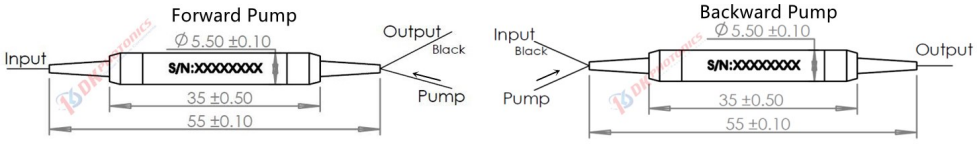
Package Dimension:



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℃		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		℃	-5 to +70
Storage Temperature		℃	-40 to +85
Package Dimensions		mm	Ø5.5 x L35(<5W), 60x12x8(>5W)

1. Above specifications are for device without connector.
2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower. Power transmits through the connector less than 2W.
3. 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 250μm bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦
Wavelength	Optical Power	Tap Ratio	Pump Configuration	Pigtail Diameter	Fiber Length	Connector
9457:1940 signal/1570 pump 2057:2000 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	25:250μm bare fiber 90:900μm 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-2057 -L-01-B-90-10-FA

Description: SM WDM/Tap Coupler Hybrid Combination, 2000nm 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.