



1940/1570nm SM WDM/Tap Coupler/Isolator Hybrid Combination

Key Features

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

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. 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 application by combining more functions into a very compact package.

Applications

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



For more Info

Please contact us at:

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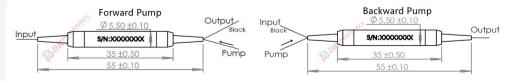
E-mail: sales@dkphotonics.com

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Add.:

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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		
Stage of Isolator		-	Single Stage	Dual Stage	
Signal Central Wavelength (λ c)		nm	1940, 2000,2050		
Max. Signal Excess Loss, $\lambda c \pm 20$ nm, @ 23°C		nm	2.0	2.3	
Min. Signal Isolation, λ c± 50 nm, @ 23°C(Isolator)		nm	16	35	
Tap Ratio		%	1~50		
Tap Channel Typ. Loss		dB	1%(20~22.5), 5%(14 ~ 16.5)		
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	0.2		
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		Ν	≤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	Ø5.5 x L38(<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: WTIH -①-②-③-④-⑤-⑦

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	\bigcirc	8
Wavelength	Stage of Isolator	Optical Power	Tap Ratio	Pump Configuration	Pigtail Diameter	Fiber Length	Connector
9457:1940 sig- nal/1570 pump 2057:2000 sig- nal/1570 pump XX: other	S: Single Stage U: Dual Stage	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 LA: LC/APC XX: Others

Part Number Example: WTIH-9457-S-L-01-F-90-10-FA

Description: SM WDM/Tap Coupler/Isolator Hybrid Combination, 1940nm signal/1570nm pump, single stage isolator, 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.