

980/1550nm WDM/Tap Coupler/Isolator Hybrid Combination

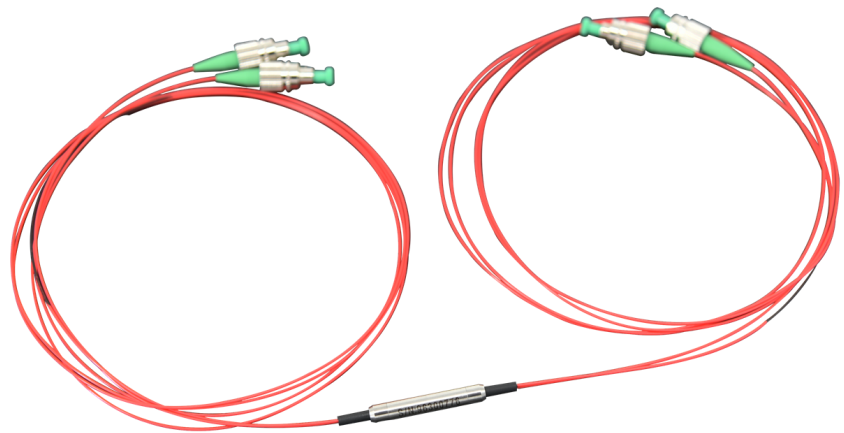
Key Features

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

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

Applications

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



For more Info

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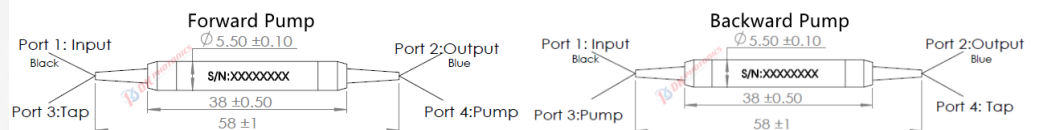
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Add.:

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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	
Stage of Isolator	-	Single Stage	Dual Stage
Signal Central Wavelength (λ_c)	nm	1550, 1590	
Signal Wavelength Range	nm	1528~1565(C Band), 1570~1605(L Band)	
Max. Signal Excess Loss, λ_c , @ 23°C	nm	1.3	1.5
Min. Signal Isolation, λ_c , @ 23°C(Isolator)	nm	31	45
Tap Ratio	%	1~50	
Tap Channel Typ. Loss	dB	1%(19.0~21), 2%(16.2 ~ 19.2), 5%(12.2 ~ 15.2)	
Min. Isolation (WDM)	Signal Channel	30	
	Pump Channel	12	
Pump Wavelength Range	nm	960~990	
Max. Insertion Loss (Pump to Common)	dB	0.6	
Max. PDL	dB	0.15	
Min. Return Loss	dB	50	
Max. Power Handling (CW)	W	0.5, 2, 3, 10,20	
Max. Peak Power for Pulse	kW	1, 5,10	
Max. Tensile Load	N	≤5	
Fiber Type	-	1060-XP or Specified for Common & Pump port SMF-28e or Specified for Signal and tap port	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	
Package Dimensions	mm	Ø5.5 x L38(<10W), 60x12x8(>10W)	

- 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: 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 250μm 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
59:1550 signal/980 pump	S: Single Stage D: 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-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.