SM Hybrid Components

DK PHOTONICS
Optical Passive Components

980/1030nm WDM/Tap Coupler/Isolator Hybrid Combination

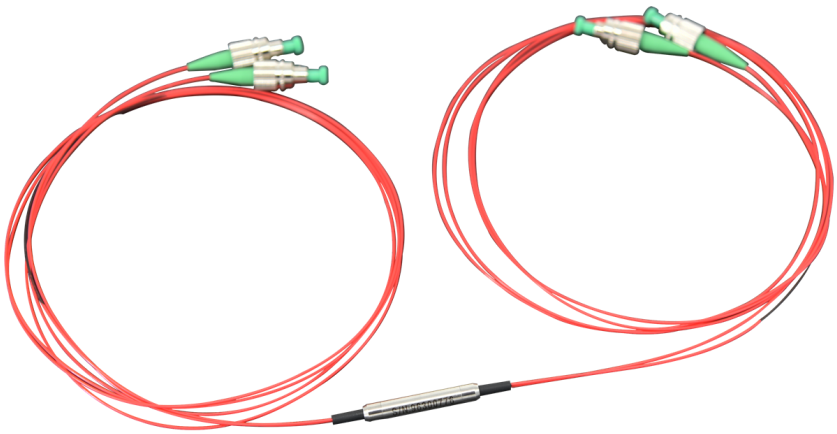
Key Features

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

DK Photonics 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 hight return loss. This product offers integrated solution to fiber amplifier 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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Add.:

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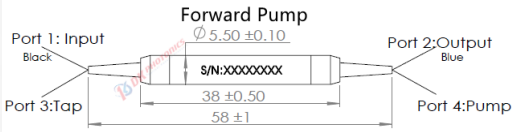
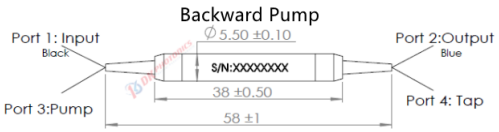
Package Dimension:





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
Signal Central Wavelength (λ c)		nm	1030
Signal Wavelength Range		nm	±5
Max. Signal Excess Loss, λ c, @ 23℃		nm	3.8
Min. Signal Isolation, λ c, @ 23℃(Isolator)		nm	30
Tap Ratio		%	1~50
Tap Channel Typ. Loss		dB	20.0~23.3(1% tap)
Min. Isolation (WDM)	Signal Channel	dB	25
	Pump Channel	dB	12
Pump Wavelength Range		nm	960~990
Max. Insertion Loss (Pump to Common)		dB	0.7
Max. PDL		dB	0.15
Min. Return Loss		dB	50
Max. Power Handling (CW)		mW	50
Max. Peak Power for Pulse		kW	1, 5,10
Max. Tensile Load		N	≤5
Fiber Type		-	1060-XP or Specified
Operating Temperature		℃	-5 to +70
Storage Temperature		℃	-40 to +85
Package Dimensions		mm	Ø5.5 x L38

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. For this 1030nm Isolator, Due to high IL, it is recommended to use average power <50mW. If you need higher handle power, please look for our TGG based High power isolator.
4. 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

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
39:1030 signal/980 pump	S: Single Stage	L: Refer to the above table	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: WTIH-39-S-L-01-F-90-10-FA

Description: SM WDM/Tap Coupler/Isolator Hybrid Combination, 1030nm signal/980nm pump, 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.