



1030nm Polarization Maintaining Tap Coupler/ Isolator Hybrid Combination

Key Features

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

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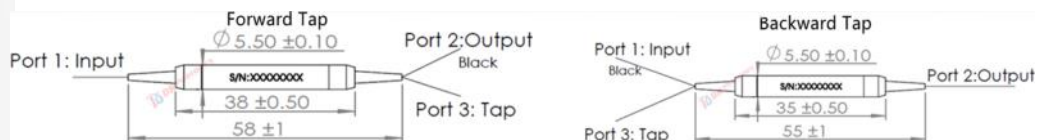
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Add.:

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Package Dimension



* If Tap port is on the input side (Backward Tap), Tap is both axis working. If Tap port is on the Output side (Forward Tap), it is fast axis blocked, slow axis working. The default tap is on the input side.

*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	dB	+/-5
Max. Signal Excess Loss, λ_c , @ 23°C	dB	3.5
Min. Isolation at 23°C(Type B, Isolator)	dB	22
Min. Isolation at 23°C(Type F, Isolator)	dB	28
Tap Ratio	%	1~50
Tap Channel Typ. Loss	dB	20.0~23.0(1% tap)
Min. Extinction Ratio @ 23°C	dB	Type B: 20, Type F: 22
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	-	PM980 fiber or specified
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85
Package Dimensions	mm	Ø5.5 x L35

- Above specifications are for device without connector.
- For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower. The default connectorkey is aligned to slow axis. Power transmits through the connector less than 2W.
- Type B: Both axis working, Type F: Fast axis blocked, the default is Type B if without request.
- For this 1030nm Isolator, Due to high IL, it is recommended to use average power of <50mW for 1030nm. If you need higher handle power, please look for our TGG based High power isolator.
- If there is pulse application, please be sure to inform us of pulse energy and peak power.
- If you have questions about the axial direction, please contact us.

Order information P/N:PMTIH-S-①-②-③-④-⑤-⑥-⑦-⑧ (S:Single Stage)

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	⑧
Wavelength	Tap Ratio	Optical Power	Tap Configuration	Axis alignment	Pigtail Diameter	Fiber Length	Connector
30:1030nm	01:1% Tap 02:2% Tap 05:5% Tap	L: Refer to the above table	F: Forward Tap B: Backward Tap	F: Fast axis blocked, Slow axis working B: Both of axis working	25:250 μ m bare fiber 90:900 μ m Loose Fiber XX: Others	08:0.8m 10:1.0m 15:1.5m XX: Others	00: None FP: FC/PC FA: FC/APC SA: SC/APC XX: Others

Part Number Example: PMTIH-S-30-01-L-F-90-10-FA

Description: Polarization Maintaining Tap Coupler/Isolator Hybrid Combination, 1030nm signal Wavelength, 1% tap, and Fast axis blocked, Slow axis working, 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.