

1030nm 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' Tap Coupler/Isolator Hybrid Combination is a combination of a 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 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

Please contact us at:

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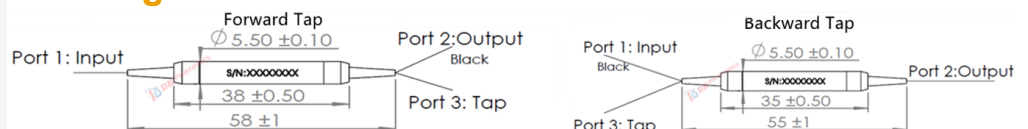
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Add.:

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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
Signal Central Wavelength (λ_c)	nm	1030
Signal Wavelength Range	nm	+/-5
Max. Signal Excess Loss, λ_c , @ 23°C	nm	3.5
Min. Signal Isolation, λ_c , @ 23°C(Isolator)	nm	30
Tap Ratio	%	1~50
Tap Channel Typ. Loss	dB	20.0~23.0(1% tap)
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 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, specifications may change without notice.
- For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and. Power transmit through the connector less than 2W.
- For this 1030nm Isolator, Due to high IL, it is recommended to use average power of <50mW. 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.

Order information P/N: TIH-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 250 μ m bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦
Wavelength	Stage	Optical Power	Tap Ratio	Pigtails Diameter	Fiber Length	Connector
30:1030	S: Single Stage	L: Refer to the above table	01:1% Tap	25:250 μ m bare fiber	05:0.5m	00: None
			02:2% Tap	90:900 μ m loose tube	10:1.0m	FP: FC/PC
			05:5% Tap	XX: Others	15:1.5m	FA: FC/APC
					XX: Others	XX: Others

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

Description: 1030nm Tap Coupler/Isolator Hybrid Combination, single stage isolator, 50mW, 1% tap coupler, 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.