



1030nm High Power Tap & TGG Isolator Hybrid Combination(1 μ m fiber laser, HPTIH, 20W)

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 laser and Fiber amplifier application by combining more functions into a very compact package.

Key Features

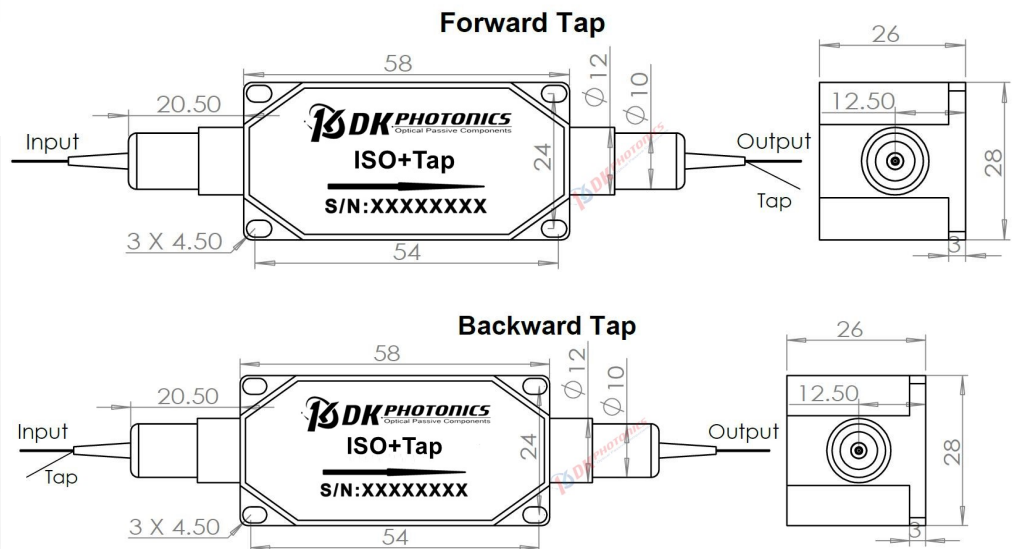
- Compact Size
- Low insertion loss
- High channel Isolation
- High stability and reliability
- Epoxy free on optical path

Applications

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



Package Dimension:



For more Info

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Add.:

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PS: For forward tap, signal wavelength is polarization dependent. For backward tap, signal wavelength is Polarization independent.

*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
Signal Central Wavelength (λ_c)	nm	1030, 1040
Signal Wavelength Range	nm	$\lambda \pm 10$
Max. Signal Excess Loss, λ_c , @ 23°C	nm	1.0
Min. Signal Isolation, λ_c , @ 23°C	nm	26
Signal Tap Ratio	%	1~50
Tap Channel Typ. Loss	dB	1% (19.0~21.8), 2% (16.2 ~ 19.0), 5% (12.2 ~ 15.0)
Max. PDL (SM fiber)	dB	0.15
Min. Return Loss	dB	50
Max. Power Handling (CW)	W	2, 5, 10, 20
Max. Peak Power for Pulse	kW	1, 5, 10
Max. Tensile Load	N	5
Fiber Type	-	1060-XP, 10/125 SC fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

- 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: HPTIH -①-②-③-④-⑤-⑥

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
Wavelength	Optical Power	Tap Ratio	Pigtail Diameter	Fiber Length	Connector
64:1064	L:<0.5W	01:1% Tap	25:250μm bare fiber	08:0.8m	00: None
30:1030	1:1W	02:2% Tap	90:900μm Loose Fiber	10:1.0m	FP: FC/PC
40:1040	3:3W	05:5% Tap	XX: Others	15:1.5m	FA: FC/APC
	5:5W			XX: Others	XX: Others
	10:10W				

Part Number Example: HPTIH-30-20-01-25-10-00

Description: High power Tap Coupler/Isolator Hybrid Combination, 20W, 1030nm signal, 1% tap, 1060-XP fiber, bare fiber, 1.0m fiber length, and no connectors at all ports.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.