

## 1940nm 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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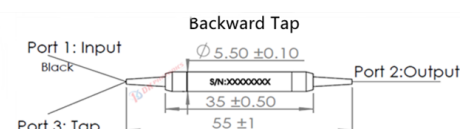
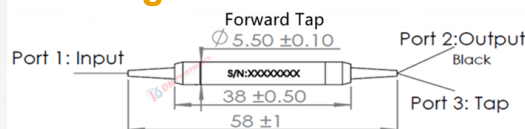
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### Package Dimension:



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 ( $\lambda_c$ )	nm	1940	
Max. Signal Excess Loss @ 23°C ( $\lambda_c \pm 20$ nm)	nm	1.4	1.7
Min. Signal Isolation @ 23°C (Isolator, ( $\lambda_c \pm 50$ nm))	nm	16	35
Tap Ratio	%	1~50	
Tap Channel Typ. Loss	dB	1%(19.0~21), 2%(16.2 ~ 19.0), 5%(12.2 ~ 15.0)	
Max. PDL	dB	0.15	
Min. Return Loss	dB	50	
Max. Power Handling (CW)	W	0.5, 1, 2, 5, 10	
Max. Peak Power for Pulse	kW	1, 5, 10	
Max. Tensile Load	N	5	
Fiber Type	-	SMF-28e(default) or SM1950 fiber or specified	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	
Package Dimensions	mm	$\Phi 5.5 \times L35(<5W)$ , $60 \times 12 \times 8(>5W)$	

- 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.
- 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 $\mu$ m bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦
Wavelength	Stage	Optical Power	Tap Ratio	Pigtails Diameter	Fiber Length	Connector
1940:1940nm	S: Single Stage	L: <0.5W	01:1% Tap	25:250 $\mu$ m bare fiber	05:0.5m	00: None
2000:2000nm	D: Dual Stage	3:3W	02:2% Tap	90:900 $\mu$ m loose tube	10:1.0m	FP: FC/PC
2050:2050nm		5:5W	05:5% Tap	XX: Others	15:1.5m	FA: FC/APC
		10:10W			XX: Others	XX: Others

**Part Number Example:** TIH-1940-S-L-01-90-10-FA

**Description:** 1940nm Tap Coupler/Isolator Hybrid Combination, single stage isolator, 0.5W, 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.