## Tap coupler/Isolator Hybrid Combination

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 hight return loss. This product offers integrated solution to EDFA application by combining more functions into a very compact package.
The products are Telcordia GR-1221/1209-CORE qualified, and RoHS compliant.
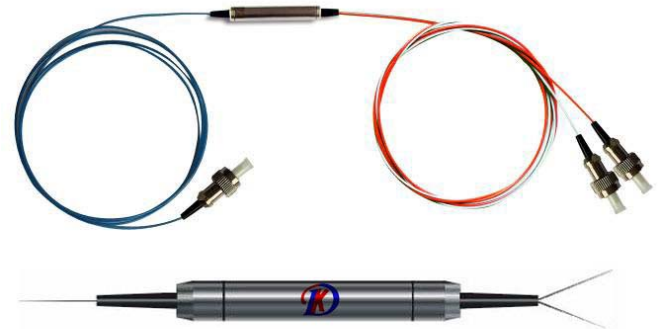
Features

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

Applications

- Fiber optic Amplifiers
- CATV Fiber optic Links
- WDM Systems
- Fiber optic Instruments
- Transmitters and Fiber Lasers
- Laboratory R&D

Performance Specifications

Parameter	Single Stage	Dual Stage
Operating Wavelength (nm)	1550	
Tap Channel Isolation Loss(dB)	1%(19.0~20.8), 2%(16.2 ~ 18.0), 5%(12.2 ~ 14.0)	
Minimum Isolation (dB)	31	45
Signal Channel Typical Insertion Loss (dB)	0.6	0.8
Signal Channel Maximum Insertion Loss (dB)	0.8	1.0
Polarization Dependent Loss (dB)	< 0.10	
Bandwidth (nm)	+15	+30
Return Loss (dB)	> 55	
Power Handling (mW)	300	
Operating Temperature (°C)	-5 ~ +70	
Storage Temperature (°C)	-40 ~ +85	
Package Dimensions (mm)	Ø 5.5 x L38	
Fiber Length (Min.)	1 Meter	
Fiber Type	SMF-28 fiber	

*Values are referenced without connector loss, specifications may change without notice.
**Other specifications can be made on customer request.

Order information

TIH-①①-②-③-④④-⑤⑤-⑥⑥

①①	②	③	④④	⑤⑤	⑥⑥
Wavelength	Stage	Tap Ratio	Fiber Diameter	Fiber Length	Connector
55:1550	S:Single Stage U:Dual Stage	01:1% Tap 02:2% Tap 05:5% Tap	25:250um 90:900um XX: Others	05:0.5m 10:1.0m 15:1.5m XX:Others	00:None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC ST: ST/PC XX: Others