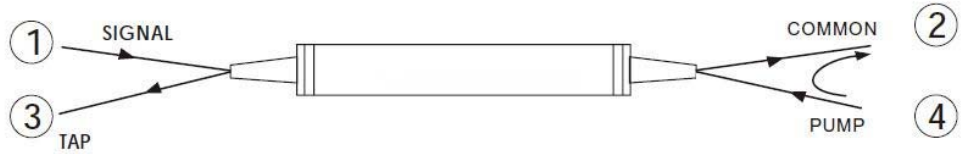




980/1550 nm WDM/Tap Coupler/Isolator Hybrid Combination

DK Photonics's WTIH is a combination of a wavelength division multiplexer, 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 EDFA application by combining more functions into a very compact package.

The products are Telcordia GR-1221/1209-CORE qualified, and RoHS compliant

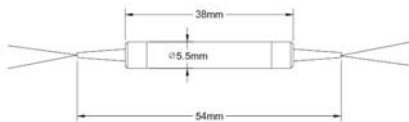


Features

- ◆ 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
Signal Operation Wavelength Range (nm)	C band	1528~1564	
	L band	1570~1605	
Pump Channel Wavelength Range (nm)		965~1000	
Isolation (dB) (@23°C all SOP)		>31	>45
Isolation (dB) (1 to 3@ λ signal)		>12	
Isolation (dB) (1 to 2 or 2 to 1@λ pump)		>30	
Insertion Loss (over wavelength range and 0 to +70°C,all SOP) (dB)	Pump Channel	0.6	
	Signal Channel	1.4	1.5
	Tap Ratio 1%	19.2~21.0	
	Tap Ratio 2%	16.2~18.0	
	Tap Ratio 5%	12.2~14.0	
Wavelength Dependent Loss (dB)		≤0.5	
Return Loss (dB)		>50	
Directivity (dB)		>55	
PDL (dB)		<0.1	
PMD(ps)(Low PMD Option)		≤0.25(0.05)	≤0.05
Power Handling (mW)		300	
Operating Temperature (°C)		0~+70	
Storage Temperature (°C)		-40~+85	
Package Dimension (mm)		φ5.5×L38	
Fiber Type		Corning Flexcore 1060 fiber at common and pump port	
		Corning SMF-28 fiber at signal and tap port	

*Values are referenced without connector loss, specifications may change without notice.

**Other specifications can be made on customer request.

Order information

WTIH-①①-②-③-④④-⑤⑤-⑥⑥



①①	②	③	④④	⑤⑤	⑥⑥
Wavelength	Stage	Tap Ratio	Fiber Diameter	Fiber Length	Connector
59:1550/980nm	S:Single Stage	01:1% Tap	25:250um	05:0.5m	00:None
69:1585/980nm	U: Dual Stage	02:2% Tap	90:900um	10:1.0m	FP: FC/PC
		05:5% Tap	XX: Others	15:1.5m	FA: FC/APC
				XX:Others	SP: SC/PC
					SA: SC/APC
					LP: LC/PC
					LA: LC/APC
					ST: ST/PC
					XX: Others