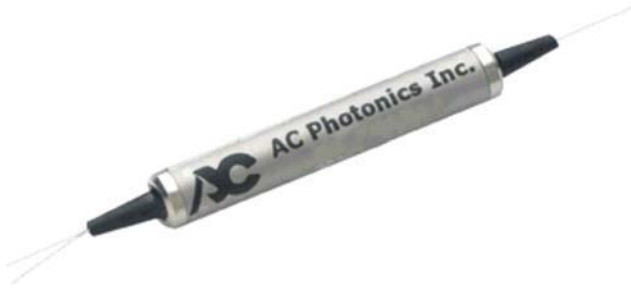




980/1550 nm WDM/Tap Coupler /Isolator Hybrid Combination

AC Photonics' 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. The WTIH is ideal for fiber optic amplifier applications. All AC Photonics' products are Telcordia qualification tested.



Features

- Wide Operating Wavelength Range
- Compact Size
- Low Insertion Loss
- High Channel Isolation
- Ultra Low PDL & PMD
- High Stability and Reliability
- Epoxy Free on Optical Path

Applications

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

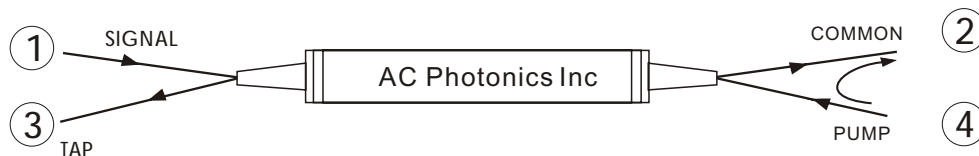
Performance Specifications

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) (2 to 4 @λ signal)		≥12	
Isolation (dB) (1 to 2 @λ pump)		≥30	
Insertion Loss (over wavelength range and 0 to +70°C, all SOP) (dB)	Pump Channel	≤0.6	
	Signal Channel	≤1.3	≤1.4
	Nominal Tap Ratio 1%	19.0~20.8	
	Nominal Tap Ratio 2%	16.2~18.0	
Wavelength Dependant 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	
Dimensions (mm)		Φ5.5 x L38	
Fiber Type		Corning HI 1060 fiber at common/pump port	
		Corning SMF-28 fiber at signal/tap port	

Values are referenced without connector loss. Specifications may change without notice.

Ordering Information

WTIH	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	Wavelength	Stage	Tap Ratio	Pigtail Style	Fiber Length	In/Out Connector
	59=1550/980nm 69=1585/980nm	S=Single Stage U=Dual Stage	1=1% 2=2% 5=5%	1=Bare Fiber 2=900um Jacket	1=1.0m 2=1.5m	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC



Dimensions

