

1480/1550 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 tapcoupling 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 Optical Path

Applications

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

Performance Specifications

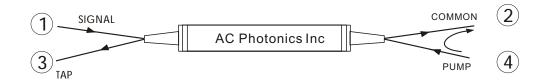
Parameter		Single Stage	Dual Stage	
Signal Operation	C band	1530~1565		
Wavelength Range (nm)	L band	1570~1605		
Pump Channel Wavelength Range (nm)		1450~1490		
Isolation (dB) (@ 23°C all SOP)		<u>></u> 31	<u>></u> 45	
Isolation (dB) (2 to 4 @ λ signal)		<u>></u> 12		
Isolation (dB) (1 to 2 @ λ pump)		<u>≥</u> 30		
Insertion Loss (over wavelength range and 0 to +70° C , all SOP) (dB)	Pump Channel	≤0.6		
	Signal Channel	<u><</u> 1.1	<u><</u> 1.3	
	Nominal Tap Ratio 1%	19.0~20.8		
	Nominal Tap Ratio 2%	16.2~18.0		
	Nominal Tap Ratio 5%	12.2~14.0		
Wavelength Dependent Loss (dB)		≤0.5		
Return Loss (dB)		<u>≥</u> 50		
Directivity (dB)		<u>></u> 55		
PDL (dB)		<u>≤</u> 0.1		
PMD (ps)(Low PMD Option)		<u><</u> 0.25(0.05)	<u>≤</u> 0.05	
Power Handling (mW)		300		
Operating Temperature (°C)		0 ~+70		
Storage Temperature	(° C)	-40 ~+85		
Dimensions (mm)		Φ 5.5 x L38		
Fiber Type		Corning SMF-28 fiber		

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



Ordering Information

WTIH						
	Wavelength	Stage	Tap Ratio	Pigtail Style	Fiber Length	In/Out Connector
	54=1550/1480nm 64=1585/1480nm		1=1% 2=2% 5=5%	1=Bare Fiber 2=900um Jacket	1=1m 2=2m	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC



Dimensions

