



# 980/1550 nm WDM/Isolator Hybrid Combination

AC Photonics' WDIH is a combination of a 980/1550 nm Filter and a 1550 nm polarization insensitive optical isolator. The WDIH is a low cost model with excellent performance including low insertion loss, high isolation, high return loss, low polarization dependent loss (PDL), and low polarization mode dispersion (PMD). This product offers integrated solution to EDFA application by combining more functions into a very compact package. All AC Photonics' products are Telcordia qualification tested.



## Features

- Wide Operating Wavelength Range
- 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

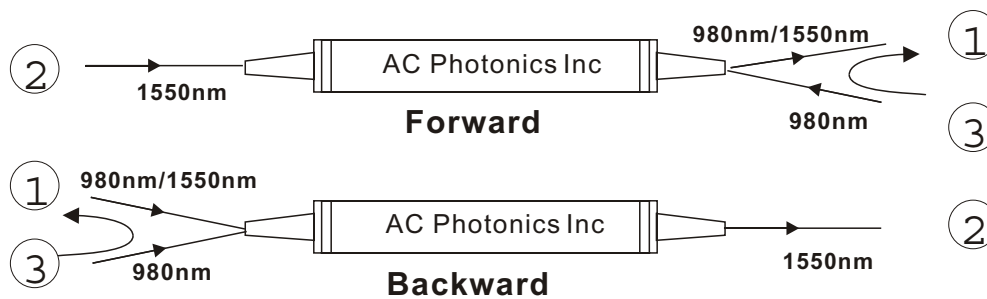
## Performance Specifications

Parameter	Single Stage	Dual Stage
Signal Operation 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
Wavelength Isolation (dB) (1 to 3 @λ signal)	≥12	
Wavelength 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	≤1.1
Temperature Dependent Loss(dB)	≤0.25	≤0.3
Wavelength Dependent Loss (dB)	≤0.4	≤0.5
Return Loss (Min.) (dB)	≥55	
Directivity (dB)	≥55	
PDL (dB)	≤0.1	≤0.2
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)	Φ 5.5 x L38	
Fiber Type	Corning HI 1060 fiber at common/pump port	
	Corning SMF-28 fiber at signal port	

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

## Ordering Information

WDIH	<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	Configuration	Pigtail Style	Fiber Length	In/Out Connector
	59=1550/980nm 69=1585/980nm	S= Single Stage U= Dual Stage	F=Forward Pump B=Backward Pump	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

