

## 980/1550 nm WDM/Isolator Hybrid Combination



**ACP's** 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.

### Key Features

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

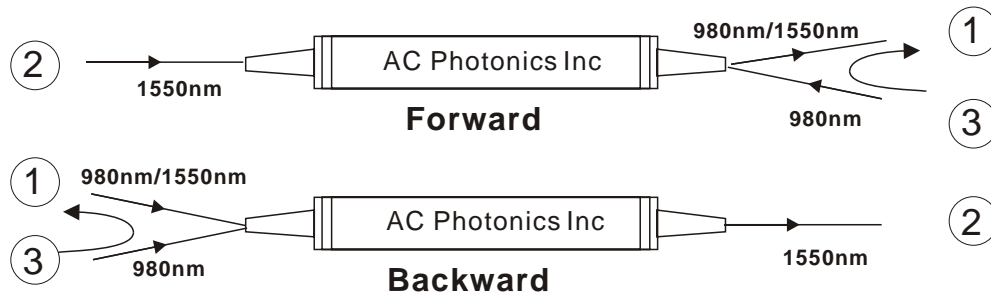
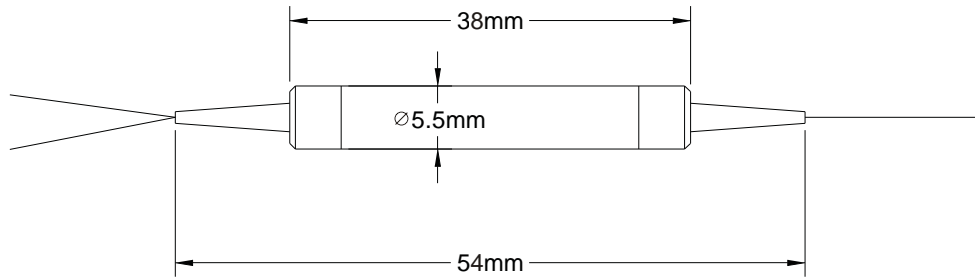
### Applications

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

### Performance Specifications

Parameter		Specifications	
		Single Stage	Dual Stage
Signal Operation Wavelength Range	C Band	1528nm to 1564nm	
	L Band	1570nm to 1605nm	
Pump Channel Wavelength Range		965nm to 1000nm	
Isolation ( @23°C, all SOP)		≥ 31dB	≥ 45dB
Wavelength Isolation (1 to 3 @ 1 signal)		≥ 12dB	
Wavelength Isolation (1 to 2 or 2 to 1 @ 1 pump)		≥ 30dB	
Insertion Loss (over wavelength range and 0 to +70°C, all SOP)	Pump Channel	≤ 0.6dB	≤ 0.6dB
	Signal Channel	≤ 1.1dB	≤ 1.2dB
Temperature Dependent Loss		≤ 0.25dB	≤ 0.3dB
Wavelength Dependent Loss		≤ 0.4dB	≤ 0.5dB
Polarization Dependent Loss		≤ 0.10dB	≤ 0.20dB
Polarization Mode Dispersion (Low PMD Option)		≤ 0.25 (0.05)ps	≤ 0.05ps
Directivity		≥ 55dB	
Return Loss		≥ 55dB	
Optical Power		≤ 300mW	
Operating Temperature		0 to +70°C	
Storage Temperature		-40 to +85°C	
Package Dimensions		Ø5.5 x L38mm	
Fiber Type		Corning HI 1060 at common/pump port	
		Corning SMF-28 fiber at signal port	

### Mechanical Dimensions



### 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 = 1.0m 2 = 2.0m	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC