

## 1480/1550 nm WDM/Isolator Hybrid Combination



ACP's 1480/1550 WDM/Isolator Hybrid component utilizes thin film coating technology and and proprietary designed metal bonding micro optics packaging to achieve optical signal and pump power combining and back reflection signal elimination. It provides low insertion loss, high isolation, wide pass band, low temperature sensitivity and epoxy free optical path. It can be used for EDFA application.

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

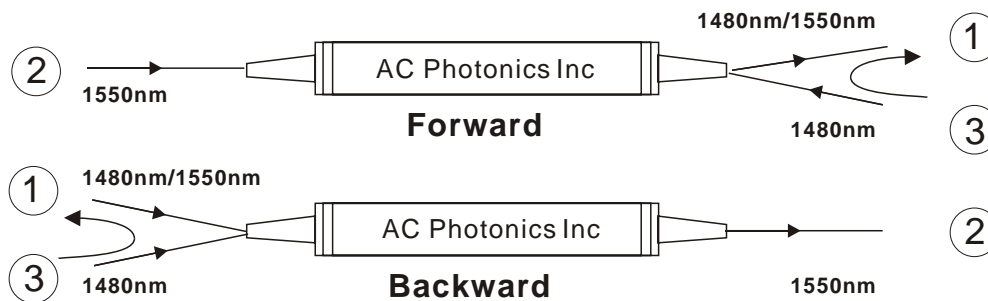
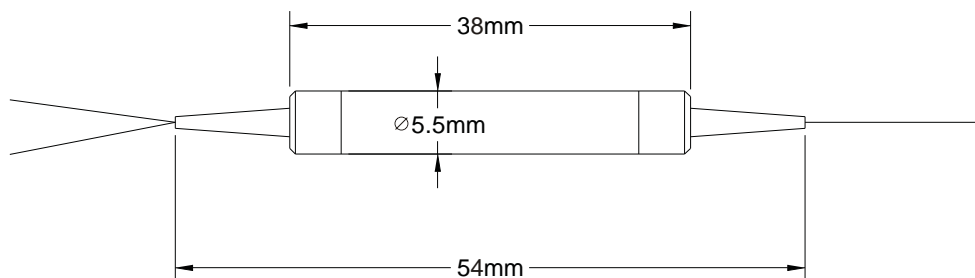
- EDFA
- DWDM Network
- Wavelength Routing
- Fiberoptic Instruments
- CATV Fiberoptic System

### Performance Specifications

Parameter	Specifications	
	Single Stage	Dual Stage
Signal Operation Wavelength Range	1530nm to 1565nm	
Pump Channel Wavelength Range	1450nm to 1490nm	
Isolation ( 1550±15nm, @RT, and all SOP)	≥ 31dB	≥ 45dB
Wavelength Isolation (1 to 3 @ 1 signal)	≥ 15dB	
Wavelength Isolation (1 to 2 or 2 to 1 @ 1 pump)	≥ 25dB	
Insertion Loss	Pump Channel	≤ 0.6dB (Typ. 0.4)
	Signal Channel	≤ 1.0dB (Typ. 0.8)
Temperature Dependent Loss	≤ 0.25dB	≤ 0.3dB
Wavelength Dependent Loss	≤ 0.4dB	≤ 0.5dB
Polarization Dependent Loss	≤ 0.10dB (Typ. 0.05)	≤ 0.10dB (Typ. 0.05)
Polarization Mode Dispersion (Low PMD Option)	≤ 0.25 (0.05)ps	≤ 0.05ps
Insertion Loss Temperature Sensitivity	≤ 0.003 dB/°C	
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 SMF-28 fiber at signal port	

Note: Values are referenced without connector loss.

### 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
	54 = 1550/1480nm 64 = 1585/1480nm	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