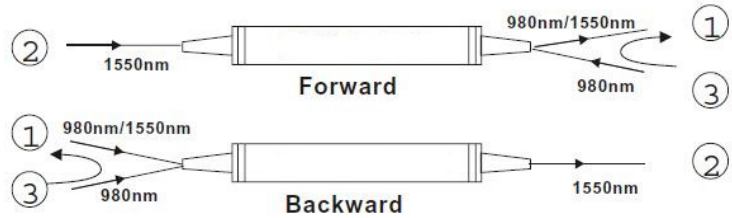




980/1550 nm WDM/Isolator Hybrid Combination

DK Photonics'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. The products are Telcordia GR-1221/1209-CORE qualified, and RoHS compliant.



Performance Specifications

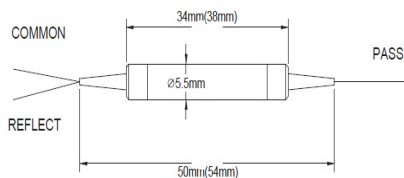
Features

- ◆ Wide Operating Wavelength Range
- ◆ Compact Size
- ◆ Low insertion loss
- ◆ Ultra Flat Wide Passband
- ◆ High channel isolation
- ◆ High stability and reliability
- ◆ Epoxy free on optical path

Applications

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

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@λsignal)		>12	
Wavelength Isolation (dB) (1 to 2 or 2 to 1@λpump)		>30	
Insertion Loss (over wavelength range and 0 to +70°C, all SOP) (dB)	Pump Channel	0.6	
	Signal Channel	1.2	1.3
Temperature Dependent Loss (dB)		0.25	0.3
Wavelength Dependent Loss (dB)		0.4	0.5
Return Loss (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	
Package Dimension (mm)		φ5.5×L38	
Fiber Type		Corning Flexcore 1060 fiber at common and pump port	
		Corning SMF-28 fiber at signal port	



*Values are referenced without connector loss, specifications may change without notice.
**Other specifications can be made on customer request.

Order information

WDIH-①①-②-③-④④-⑤⑤-⑥⑥



①①	②	③	④④	⑤⑤	⑥⑥
Wavelength	Stage	Configuration	Fiber Diameter	Fiber Length	Connector
59:1550/980nm 69:1585/980nm	S:Single Stage U: Dual Stage	F:Forward Pump B:Backward Pump	25:250um 90:900um XX: Others	05:0.5m 10:1.0m 15:1.5m XX:Others	00:None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC ST: ST/PC XX: Others