

## Hybrid WDM – Isolator 980 / 1550nm

Fiberdyne Labs FWDIH is a combination of a 980 / 1550nm Wave Division Multiplexer (WDM) and a C-Band 1550nm polarization insensitive optical isolator in a small package.

### Features:

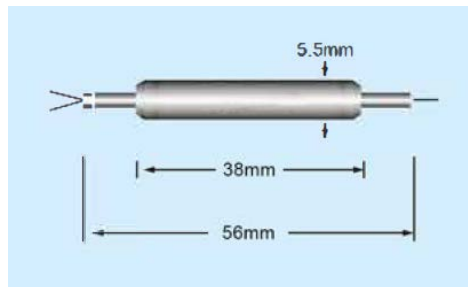
- Wide operating wavelength range
- Low insertion loss
- High channel isolation
- Ultra low PDL & PMD
- High stability and reliability
- Epoxy free on optical path



### Applications:

- Fiber optic amplifier
- CATV fiber optic link
- WDM system
- Fiber optic instrument
- Transmitter and fiber laser
- Laboratory R & D

### Dimensions:



**Performance Specifications:**

Parameter		Single Stage	Dual Stage
Signal Operation Wavelength Range (nm)	C band	1530 ~ 1565	
Pump Channel Wavelength Range (nm)		960 ~990	
Isolation (dB) (Over signal wavelength range @ 23°C, all SOP)		≥30	≥42
Wavelength Isolation on (dB) (3 to 1) @ λ signal		≥15	
Wavelength Isolation on (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	≤1.2	≤1.3
Temperature Dependent Loss (dB)		≤0.25	≤0.3
Wavelength Dependent Loss (dB)		≤0.4	≤0.5
Return Loss		≥50	
Directivity		≥50	
PDL		≤0.1	≤0.2
PMD (ps) (Low PMD Option)		≤0.25 (0.05)	≤0.05
Power Handling (mW)		300	
Operating Temperature (°C)		-10~+75	
Storage Temperature (°C)		-40~+85	
Package Dimension (mm)		φ 5.5 x L38	
Fiber Type		Corning HI 1060 fiber at common / pump port	
		Corning SMF-28e fiber at signal port	

Above specifications are for devices without connector.

Specifications may change without notice.

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	Wavelength	Stage	Configuration	Pigtail Type	Fiber Length	In / Out Connector
	59 = 1550nm pass /980nm reflect	S = Single Stage D = Dual Stage	F = Forward pump B = Backward pump	0 = Bare fiber 1 = 900um loose tube	1 = 1m 2 = 2m Y = Specify	0 = None 1 = ST/UPC 6 = SC/UPC 7 = FC/UPC A = FC/APC B = SC/APC L = LC/UPC N = LC/APC Y = Custom