

# Bandpass Filter/Isolator Hybrid

## BFIH Series



### Features

- Wide Operating Wavelength Range
- Compact Size
- High Isolation
- Ultra Low PDL & PMD
- Highly Stable & Reliable
- Epoxy-Free Optical Path

### Applications

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

OPLINK's BFIH is a compact combination of a bandpass filter and a polarization insensitive fiber isolator. The built-in bandpass filter blocks the amplified spontaneous emission (ASE) in the erbium doped fiber amplifier (EDFA), thus significantly improve the amplifier's performance.

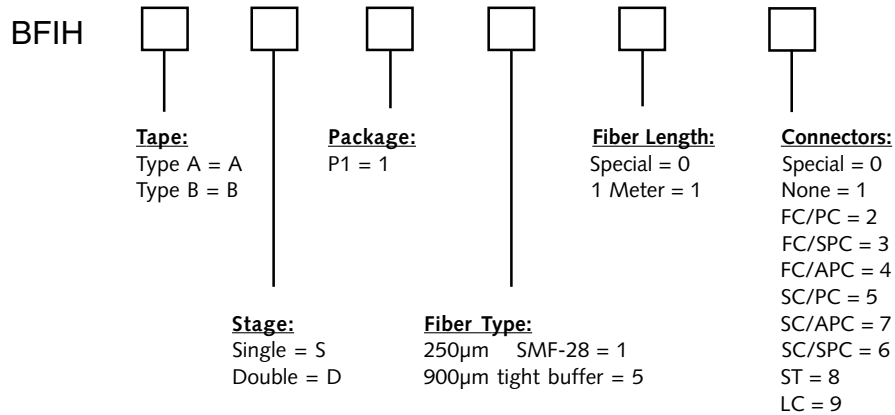
### Performance Specifications

BFIH Series	Type A		Type B	
	Single Stage	Dual Stage	Single Stage	Dual Stage
Isolator Stage				
Pass Channel Wavelength Range (nm)	1530 - 1565		1547.5 - 1560.5	
Rejection Channel Wavelength Range (nm)	1450 - 1495		1450 - 1540	
Pass Channel Insertion Loss (dB) (over wavelength range, 0 to +70°C, all SOP)	≤ 0.7	≤ 0.9	≤ 0.8	≤ 1.0
Rejection Channel Insertion Loss (dB) (over wavelength range, 0 to +70°C, all SOP)			≥ 30	
Pass Channel Insertion Loss Variation (dB) (over all wavelength range and all SOP)			≤ 0.4	
Isolation (dB) (over wavelength 1530 - 1565 nm & at 23°C, all SOP)	≥ 31	≥ 45	≥ 31	≥ 45
Return Loss (dB) (input/output ports)			≥ 55	
Polarization Dependent Loss (PDL) (dB)	≤ 0.1	≤ 0.2	≤ 0.1	≤ 0.2
Polarization Mode Dispersion (PMD) (ps)	≤ 0.25	≤ 0.05	≤ 0.25	≤ 0.05
Maximum Power Handling (mW)			300	
Operating Temperature (°C)			0 to + 70	
Storage Temperature (°C)			- 40 to + 85	
Package Dimension (mm)			P1: (φ)5.5 x (L)34	

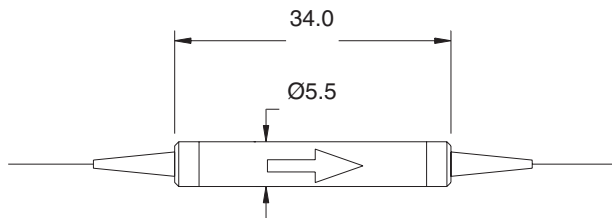
Values are referenced without connector loss

## Ordering Information

Standard Oplink BFIH are specified below with appropriate part number options. If you require devices different than these standard devices, please contact our local Oplink Distributor, Sales Representative, or Factory Customer Service for ordering and price information.



### Package Dimensions:



Unit: mm

### Configuration:

