

BAND PASS FILTER/ ISOLATOR HYBRID COMBINATION

BFIH Series

Features

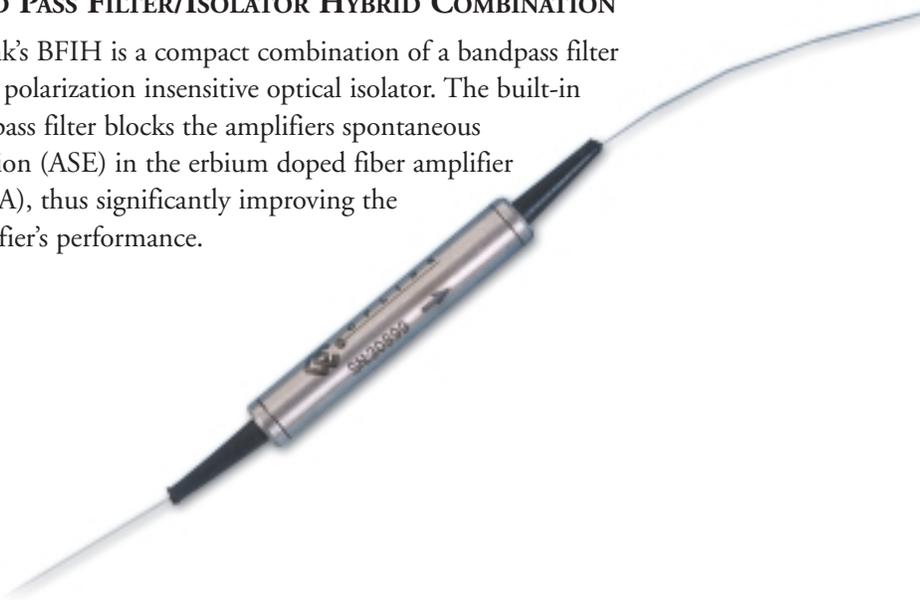
- Wide Operating Wavelength Range
- Compact Size
- High Isolation
- Ultra Low PDL & PMD
- Highly Stable & Reliable
- Epoxy-Free Optical Path

Applications

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

BAND PASS FILTER/ISOLATOR HYBRID COMBINATION

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



Performance Specifications

BFIH Series	Type A		Type B		Unit
	Single Stage	Dual Stage	Single Stage	Dual Stage	
Isolator Stage	Single Stage	Dual Stage	Single Stage	Dual Stage	Unit
Pass Channel Wavelength Range	1528-1563		1547.5-1563.5		nm
Rejection channel Wavelength Range	1450-1495		1450-1540		nm
Isolation(Min.) (over Pass Channel wavelength range 0 ~ 70°C, all SOP)	21	36	21	36	dB
Pass Channel Insertion Loss(Max.) (over wavelength range, 0 to +70°C, all SOP)	0.8	1.0	0.9	1.1	dB
Rejection Channel Insertion Loss(Max.) (over wavelength range and 0 to +70°C, all SOP)		30		25	dB
WDL (Max.)	0.3	0.4	0.3	0.4	dB
Return Loss(Min.) (input/output ports)			55		dB
PDL (Max.)	0.15	0.2	0.15	0.2	dB
PMD(Max.)	0.25	0.05	0.25	0.05	dB
Maximum Power Handling		500			mW
Operation Temperature		0 to +70			°C
Storage Temperature		-40 to +85			°C
Package Dimension*	P1:(ø)5.5 x (L)34				mm

Values are referenced without connector loss

* The mechanical tolerance should be +/- 0.2 mm on all package dimensions unless otherwise custom specified.

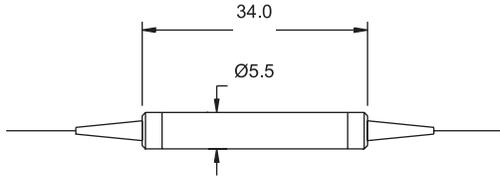
Oplink Fiber Optic Product Lines

- Amplifier Components
- Amplifier Modules
- DWDMs
- Switching/Routing/
- Monitoring/ Conditioning
- Transmission
- RGB Laser Modules



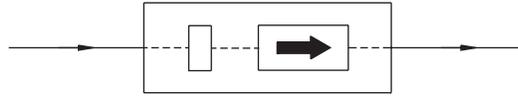
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Package Dimensions:



Unit: mm

Configuration:



Ordering Information

Oplink custom designs and manufactures high performance fiber optic networking components and integrated optical modules. Oplink can provide a remarkable range of customized optical solutions to meet your specific design needs. By combining our technical expertise with our extensive micro-optic manufacturing and packaging capability, your volume requirements for components and customized integrated products can be met. We are happy to discuss your requirements. Please contact Oplink's OEM Design Team or Sales Representative for ordering and price information (510) 933-7200.

