DK PHOTONICS
Optical Passive Components

Band Pass Filter-for 1550nm fiber laser

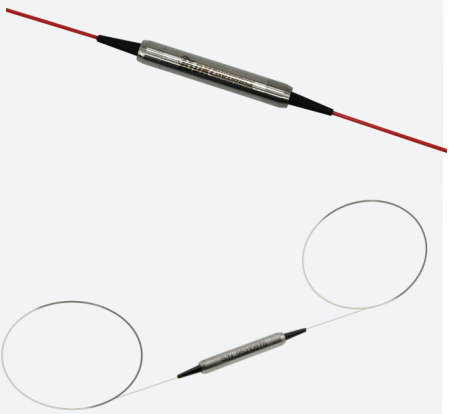
Key Features

- Low Insertion Loss
- High isolation
- High power handling
- High Stability and Reliability

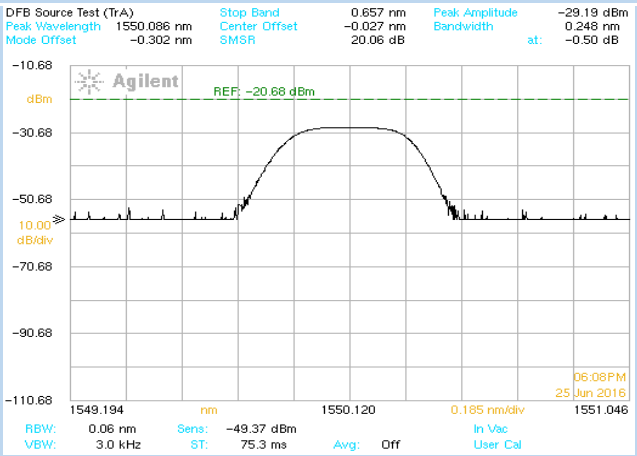
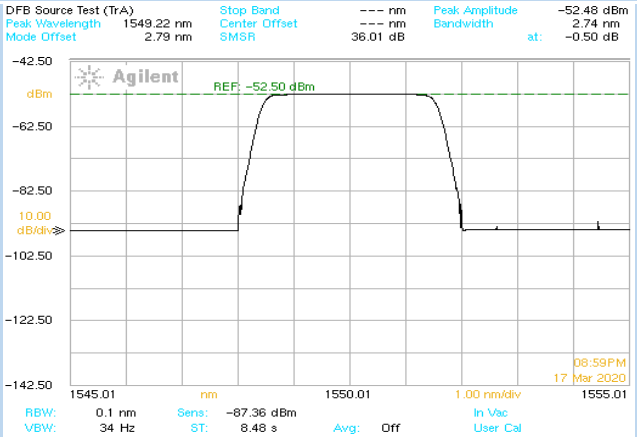
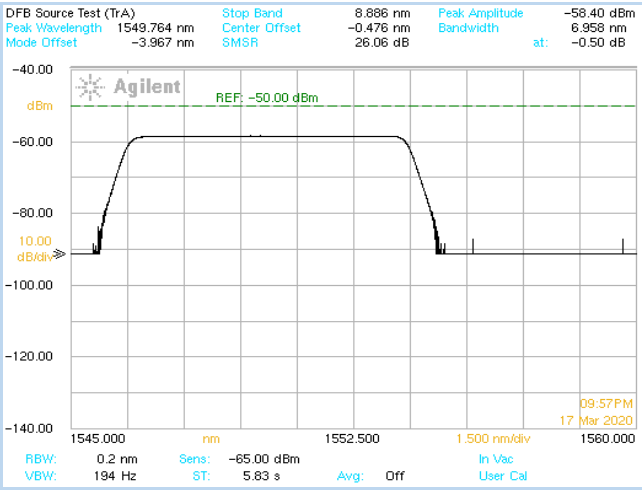
The Band-pass Filter is a micro-optics device based on environmentally stable thin-film filter technology. It is used to block out unwanted noise signals in fiber amplifier or fiber laser systems. The components are characterized with high isolation, low insertion loss, high return loss, excellent environmental stability and high-power handling capability. They are ideal for fiber amplifiers, fiber lasers, and high-speed communication system and instrumentation applications.

Applications

- Fiber laser
- Fiber amplifier



Part of the reference spectrum

Center Wavelength	Pass Band	Pass band @0.5dB
1550.12nm	0.2nm	
1550nm	2nm	
1550nm	5nm	

For more Info

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Band Pass Filter

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Band Pass Filter-for 1550nm fiber laser

Performance Specifications

Parameter	Unit	Specification
Max. Insertion Loss over Pass Band	dB	0.8
Max. PDL	dB	0.1
Min. Return Loss	dB	50
Fiber Type	-	SMF-28e, or other
Max. Power Handling	W	0.5, 1, 2, 3, 5, 10
Max. Tensile Load	N	5
Operating Temperature	℃	-5 - 75
Storage Temperature	℃	-40 - 85
Dimensions	mm	Φ5.5×L35

Center Wave-length(nm)	Min. PB @0.5dB(nm)	Min. SB (nm)
1550.12	0.2	0.5 @25dB down
	0.4	0.8 @25dB down
	0.8	1.2 @25dB down
1550	2	6 @30dB down
	5	12 @30dB down
	10	20 @30dB down
	15	25 @30dB down

*Above specifications are for device without connector. Max. Insertion Loss over Pass Band for 0.2nm bandwidth is 1.0dB.

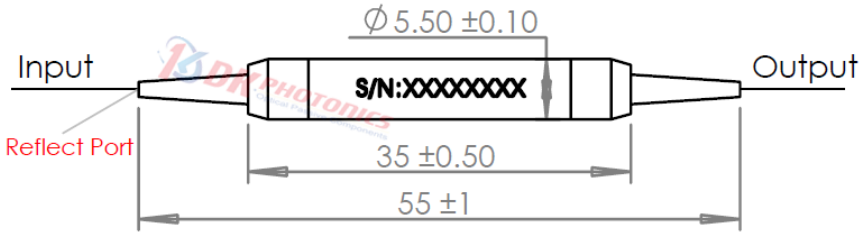
*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, Power transmits through the connector less than 2W.

*For >10W high power applications, we will use heat sink package, contact DK Photonics for details.

*Since the function of the BPF is to block unwanted noise signals, the blocked light remains in the interior of the housing, so we do not recommend applying it to too high power or adding reflection port to reflect the blocked light.

*Other center wavelengths and bandwidths can also be customized, but MOQ is required, please contact us.

Package Dimension:



Order information

P/N: BPF-①-②-③-④-⑤-⑥-⑦

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250μm bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦
Port	Wavelength	Pass bandwidth	Power Handling	Pigtails Diameter	Fiber Length	Connector
101:1x1(default) 102: 1x2(With reflect unwanted signals port)	15:1550nm	02:0.2nm 04:0.4nm 2:2nm 5:5nm 10:10nm 15:15nm	L:<0.3W 1:1W 2:2W	25:250μm bare fiber 90:900μm Loose Fiber XX: Others	05:0.5m 08:0.8m 10:1.0m XX: Others	00: None FP: FC/PC FA: FC/APC LA: LC/APC XX: Others

Part Number Example: BPF-101-55-2-L-25-10-00

Description: 1550nm Band Pass Filter, 1x1 port, 2nm pass bandwidth, 300mW power, 1.0m SMF-28e fiber, with bare fiber, no connectors at all ports.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.