

## 1550nm Single-mode Bandpass Fiber Optic Filter, 3dB Passband 0.8nm, FC/APC



- **Product Description**

IdealPhotonics' fiber optic filters use a special fiber structure to select or filter out specific wavelength light waves from different wavelengths. We offer filters in various light power versions according to customer needs, suitable for applications in Dense Wavelength Division Multiplexing (DWDM) optical communication, Frequency Division Multiplexing (FDM) optical communication, spectral testing, fiber optic sensors, fiber lasers, and fiber

amplifiers, among others. If you need to customize the center wavelength, operating temperature, or specific bandwidth, please contact us for customization.

- **Product features**

Wide passband range、 Low insertion loss、 High channel isolation、 Stable operating characteristics

- **Part Number**

MP-BPF-1550-0.8-SA

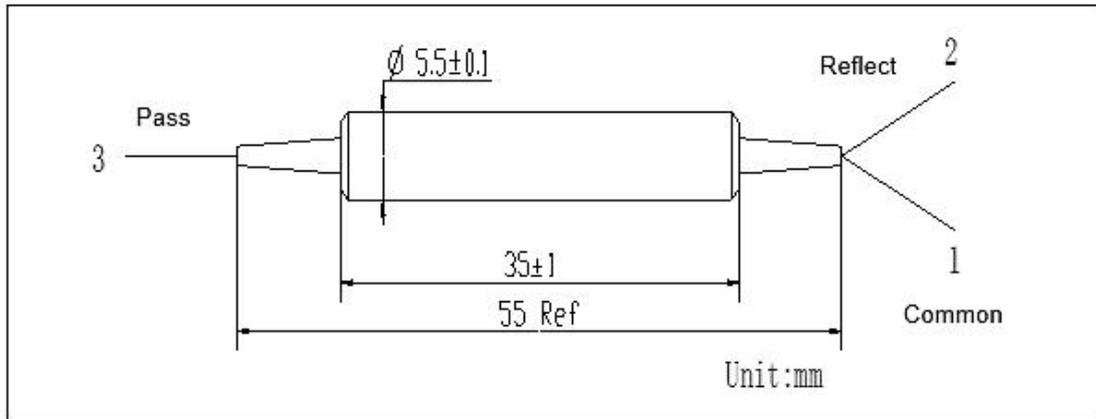
- **Application area**

Fiber amplifiers、 WDM & DWDM systems、 Fiber optic devices、 Fiber lasers

- **Core parameters**

Wavelength	Bandpass	Connector
1550nm	0.8nm	FC/APC

## ● Dimension Drawing



## ● General Parameters

### Technical Parameters

Parameters		Unit	Value
Center Wavelength		nm	1550
Min. Pass Bandwidth @ 0.5dB		nm	0.3, 0.7, 2.0, 3.0, 4.0, 5.0
Insertion Loss over Pass Band Wavelength		dB	≤1.2
Stop Band @ 25dB	0.3nm Bandwidth	nm	1520~1549 & 1551~1610
	0.7nm Bandwidth	nm	1520~1548.5 & 1551.5~1610
	2nm Bandwidth	nm	1520~1547 & 1553~1610
	3nm Bandwidth	nm	1520~1546 & 1554~1610
	4nm Bandwidth	nm	1520~1545 & 1555~1610
	5nm Bandwidth	nm	1520~1544 & 1556~1610
ASE Direction		-	F: Forward, B: Backward, T: Two-way



Parameters		Unit	Value
Configuration		-	D: 2-port, Y: 3-port, X: 4-port
Optical Return Loss		dB	≥50
Polarization Dependent Loss		dB	≤0.1
Fiber Type	Input&Output	-	SMF-28 Fiber or 10/130um DC Fiber (O)
		-	12/130um DC Fiber (T) or 20/130um DC Fiber (Q)
		-	25/250um DC Fiber (R) or 25/300um DC Fiber (G)
	ASE Guide Out (Y/X Type)	-	Same Fiber or MM Fiber
Fiber Tensile Load		N	5
Max. Optical Power (CW, ASE+Signal)		mW	300
Operating Temperature		°C	0~70
Storage Temperature		°C	-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35
	Metal Box	mm	(L)120x(W)12x(H)10

Note: \*.All specifications are for measurements without connectors, and are valid only at the specified wavelength, polarization state, and temperature.

\*\* .Specifications are subject to change without notice.

## Ordering Information

MP-BPF- W□□□□-B○-P▽-☆-△-XX



W□□□□: Wavelength

1520:1520nm

1550:15500nm

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1560:1560nm

1580:1580nm

B○: 3dB bandpass width

08:0.8nm

P▽: Package

1: Standard

2: Mini

☆ : Pigtail Length

05:0.5m

1: 1m

10:10m

△: Loose Tube

B: Bare Fiber



**9:900um Loose Tube**

**20:2mm Loose Tube**

**30: 2mm Loose Tube**

**XX: Fiber and Connector Type**

**SA=SMF-28E+ FC/APC**

**SP=SMF-28E+ FC/PC**

**PA=PM Fiber+ FC/APC**

**PP=PM Fiber+ FC/PC**

**PN= PM Fiber+ none**