

## 1540 nm Polarization-mode bandpass fiber filter (FC/APC)



### ● Product Description

Idealphotonics' fiber filters use a special fiber structure to select or filter out specific wavelengths of light from different wavelengths. We can provide filter devices with different optical power versions according to user needs, which can be used in dense wavelength division multiplexing fiber communications, frequency division multiplexing fiber communications, spectrum testing, fiber sensors, fiber lasers and fiber amplifiers. If you need

to customize the center wavelength, operating temperature or specific working bandwidth, please contact us for customization.

- **Product features**

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

- **Part Number**

MP-WTF-BP-1540-20-PA

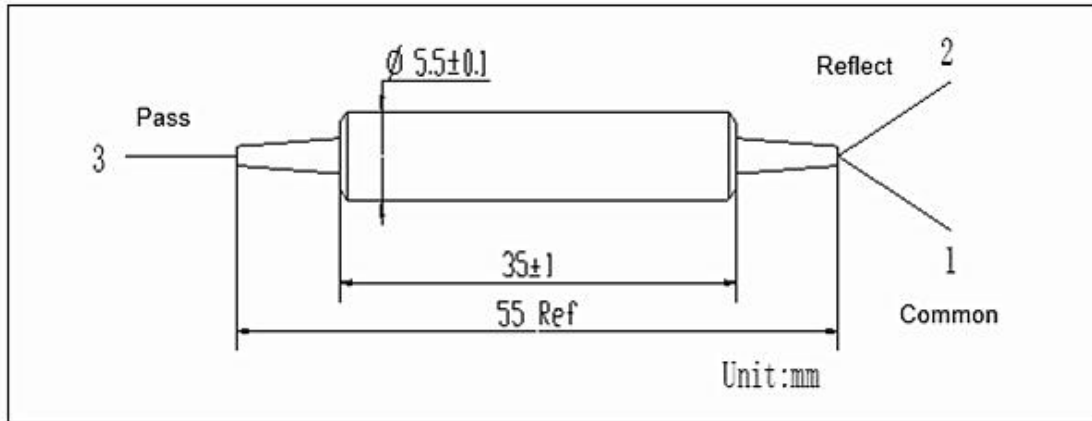
- **Application area**

Fiber amplifier、 WDM & DWDM system、 Fiber equipment、 Fiber laser

- **Core parameters**

| Center Wavelength | Bandwidth | Connector |
|-------------------|-----------|-----------|
| 1540nm            | 20nm      | FC/APC    |

## ● Dimension Drawing



## ● General Parameters

### Parameters

| Parameter              | Unit | Value                  | Remarks                             |
|------------------------|------|------------------------|-------------------------------------|
| Central wavelength(nm) | nm   | 1520/ 1520/ 1560/ 1580 | Other wavelengths can be customized |
| Insertion loss         | dB   | ≤ 0.6                  | 1550nm, 30mw, DFB                   |
| 3dB Passband bandwidth | nm   | 20                     | @25 Celsius                         |

|                                    |         |                              |                                   |
|------------------------------------|---------|------------------------------|-----------------------------------|
| Reflection wavelength              | nm      | 1450-CWL-15@CWL+15-16<br>50  | Full temperature :<br>-40 -+75 °C |
| Minimum extinction ratio           | dB      | 20                           |                                   |
| Fiber type                         | N/<br>A | 250um PM1550                 | Other fiber types available       |
| Maximum reflection bandwidth @25dB | nm      | 30                           | -                                 |
| Fiber connector type               |         | None or FC/APC               | -                                 |
| Return loss (incoming/outgoing)    | dB      | > 60/ 55dB                   | -                                 |
| Maximum operating power            | mW      | 2000                         | -                                 |
| Operating temperature              | °C      | -5-70°C                      | -                                 |
| Storage temperature                | °C      | -40-85°C                     | -                                 |
| Test light source                  |         | 1550nm benchtop light source | -                                 |
| Package size (mm)                  |         | As shown below               | -                                 |

## Notes:

\*. All indicators are without connectors. Please note that they are only valid at the above wavelengths, polarization states and temperatures.

\*\*. Indicators are subject to change without prior notice.

## Test spectrum



## Ordering information

MP-WTF-BP-W□□□□ -B○-P▽ -☆-△ -XX



**W□□□□: Wavelength**

**1520: 1520nm**

**1550: 15500nm**

**\*\*\*\*\***

**1560: 1560nm**

**1580: 1580nm**

**B ○: 3 dB Bandpass width**

**20: 20nm**

**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=PMFiber+ FC/APC**

**PP=PMFiber+ FC/PC**

**PN= PMFiber+ none**

