

# 1550nm PM Polarization Maintaining Bandpass Filter (Passband Bandwidth 2.0nm Stopband Bandwidth 8nm Dual-Axis Operation)



## ● Product Description

PM Band Pass Filter 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

High isolation 、 Low insertion loss (0.8dB) 、 High return loss (50dB) 、  
Excellent environmental stability 、 High power handling capability

## ● Part Number

MP-NTF-BP-1550-2-PM

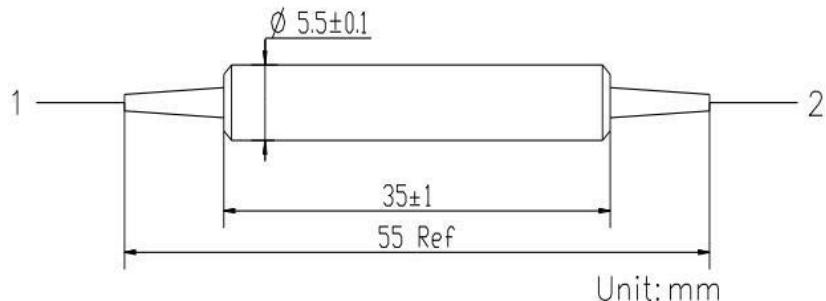
## ● Application area

Band Erbium-Doped Fiber Amplifier 、 High -density wavelength division multiplexing system 、 Fiber laser 、 Research

## ● Core parameters

| Center wavelength | Passband Bandwidth | Fiber Type |
|-------------------|--------------------|------------|
| 1550nm            | 2.0nm              | PM1550     |

## ● Dimension Drawing



## ● General Parameters

| Parameter                                       | Unit | Index               |
|---|------|---------------------|
| Nominal center wavelength                       | nm   | 1550                |
| Max. Insertion loss over 1550+/-1nm             | dB   | 0.8                 |
| Min. passband bandwidth @0.5dB                  | nm   | 2.0                 |
| Max. Stopband Bandwidth@25dB                    | nm   | 8.0                 |
| Min. extinction ratio at 23°C (only for F-Type) | dB   | 22                  |
| Min. extinction ratio at 23°C (only for B-Type) | dB   | 20                  |
| Min. Return Loss                                | dB   | 50                  |
| Fiber Type                                      | -    | PM 1550 panda fiber |
| Max. tensile load                               | N    | 5                   |
| Max. Optical Power (CW)                         | mW   | 500                 |
| Operating temperature                           | °C   | -5 to 70            |
| Storage temperature                             | °C   | -40 to +85          |

Remark:

\*The above specifications apply to devices without connectors.

\*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and

ER will be 2dB lower.

## Model Description

**PMBPF-①①①①-②②-③③-④-⑤-⑥⑥-⑦⑦-⑧-⑨⑨-⑩⑩**

①①①①: Center Wavelength

1550 - 1550nm

SSSS - Specify

⑤: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑦⑦: Fiber Jacket on Port 1, 2

B - Bare Fiber

C - 900um Loose Tube(Red)

S - Specify

②②: Pass Band Width

02 - 2nm

SS - Specify

⑥⑥: Connector Type on Port 1, 2

1B - FC/UPC

2B - FC/APC

3B - SC/UPC

4B - SC/APC

⑧: Fiber Length

0.8 - 0.8 m

S - Specify

③③: Stop Band Width

08 - 8nm

SS - Specify

S - Specify

N - None

⑨⑨: Fiber Type

01A - PM1550 Fiber

④: Handling Power

0.5 - 500mW

S - Specify

⑩⑩: Package Type

01 - Ø5.5x35

Form No. :D05-203-05 Rev. B