

## 1045nm PM Band Pass Filter

1045nm PM Band Pass Filter is a fiber passive component which is based on thin-film filter technology, it can block the unwanted wavelength signal and pass the specific wavelength band. It's widely used in fiber amplifier and fiber laser field, the high power type is also available upon request.

### Application:

Fiber Laser  
Testing System  
Fiber Optic Sensor  
Lab And Research

### Features:

Low Insertion Loss  
High Extinction Ratio  
High Power  
High Reliability



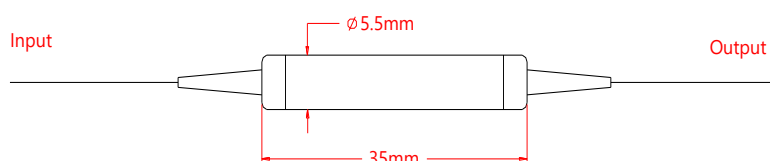
### Specification:

| Parameter                  | Symbol    | Value              |    | Unit |
|----------------------------|-----------|--------------------|----|------|
| Center Wavelength          | $\lambda$ | 1045               |    | nm   |
| Min. Pass Bandwidth @0.5dB | BW        | 5                  | 8  | nm   |
| Max. Stop Bandwidth @25dB  | BW        | 12                 | 20 | nm   |
| Max. Insertion Loss        | IL        | 0.8                |    | dB   |
| Min. Isolation             | Iso       | 25                 |    | dB   |
| Min. Extinction Ratio      | ER        | 20                 |    | dB   |
| Min. Return Loss           | RL        | 50                 |    | dB   |
| Max. Optical Power (CW)    | P         | 500                |    | mW   |
| Max. Tensile Load          |           | 5                  |    | N    |
| Fiber Type                 |           | PM 980 Panda fiber |    | -    |
| Operating Temperature      | T         | -5~70              |    | °C   |
| Storage Temperature        | T         | -40~85             |    | °C   |
| Package Dimension          |           | Φ5.5xL35           |    | mm   |

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, ER will be 2dB lower, RL will be 5dB lower, slow axis is default aligned to the connector key.

### Drawing:



### Ordering Information (Part Number):

| PMBPF- <b>WWW</b> - <b>PPSS</b> - <b>A</b> - <b>J</b> - <b>LL</b> - <b>CC</b> |                                                                            |                                                                     |                                                                                              |                                                                  |                                                                                                                     |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>WWW</b>                                                                    | <b>PPSS</b>                                                                | <b>A</b>                                                            | <b>J</b>                                                                                     | <b>LL</b>                                                        | <b>CC</b>                                                                                                           |
| Wavelength                                                                    | Pass Band & Stop Band                                                      | Working Axis                                                        | Fiber Jacket                                                                                 | Fiber Length                                                     | Connector                                                                                                           |
| 1045 - 1045nm<br>SSSS - Specify                                               | 0512 - 5nm Pass, 12nm Stop<br>0820 - 8nm Pass, 12nm Stop<br>SSSS - Specify | F - Fast Axis Blocked<br>Slow Axis Working<br>B - Both Axes Working | B - 250um Bare Fiber<br>9 - 900um Loose Tube<br>2 - 2.0mm Loose Tube<br>3 - 3.0mm Loose Tube | 05 - 0.5m<br>10 - 1.0m<br>15 - 1.5m<br>20 - 2.0m<br>SS - Specify | NE - None<br>FA - FC/APC<br>FU - FC/UPC<br>SA - SC/APC<br>SU - SU/APC<br>LA - LC/APC<br>LU - LC/UPC<br>SS - Specify |