

## 1550nm High Power PM Tunable Optical Filter

1550nm High Power PM Tunable Optical Filter is a fiber passive component which can be used for filter out variable wavelength range from a wide wavelength bandwidth, it's based on thin film cavity filter technology, the demanded wavelength can be filtered out precisely by adjusting the manual screw. Wavelength can be tuned continuously over a wide spectral range up to 80nm, it's widely used in Optical Comb and Optical Testing System.

### Application:

Optical Comb  
Fiber Optic Sensor  
ASE Control  
Lab & Research

### Features:

Low Insertion Loss  
High Resolution  
Wide Tuning Range  
High Realibility



### Specification:

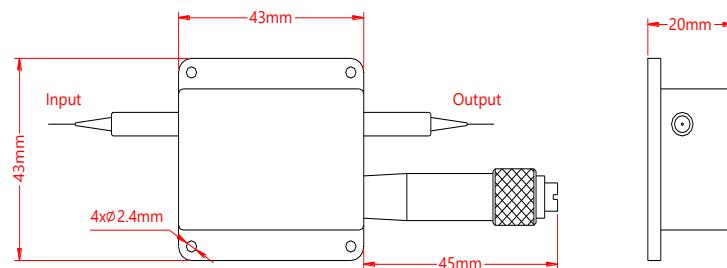
| Parameter               | Symbol    | Value                     | Unit |
|-------------------------|-----------|---------------------------|------|
| Center Wavelength       | $\lambda$ | 1550                      | nm   |
| Tuning Range            |           | 80                        | nm   |
| Tuning Resolution       |           | 0.02 (min.), 0.1 (typ.)   | nm   |
| Insertion Loss          | IL        | 4.0 (max.), 2.5 (typ.)    | dB   |
| Bandwidth @-3dB         | BW        | 1.2 (max.), 1.0 (typ.)    | nm   |
| Typ. Bandwidth @-20dB   | BW        | 10                        | nm   |
| Extinction Ratio        | ER        | 18 (min.), 20 (typ.)      | dB   |
| Min. Return Loss        | RL        | 40                        | dB   |
| Max. Optical Power (CW) | P         | 1, 3, 5, 10 or customized | W    |
| Max. Tensile Load       |           | 5                         | N    |
| Fiber Type              |           | PM 1550 Panda Fiber       | -    |
| Operating Temperature   | T         | 0~70                      | °C   |
| Storage Temperature     | T         | -40~85                    | °C   |
| Package Dimension       |           |                           | 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. Connectors only 1W CW optical power guarantee.

### Drawing:



### Ordering Information (Part Number):

| HPMTOF- <b>WWWW</b> - <b>HH</b> - <b>J</b> - <b>LL</b> - <b>CC</b> |                                                           |                                              |                                                                               |                                                                                                                     |
|--------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>WWWW</b>                                                        | <b>HH</b>                                                 | <b>J</b>                                     | <b>LL</b>                                                                     | <b>CC</b>                                                                                                           |
| Wavelength                                                         | Handling Power                                            | Fiber Jacket                                 | Fiber Length                                                                  | Connector                                                                                                           |
| 1550 - 1550nm<br>SSSS - Specify                                    | 01 - 1W<br>03 - 3W<br>05 - 5W<br>10 - 10W<br>SS - Specify | B - 250um Bare Fiber<br>9 - 900um Loose Tube | 05 - 0.5m<br>08 - 0.8m<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 |