



## 1577.5nm PM Bandpass Filter/Isolator Hybrid

### FEATURES

- Low Insertion Loss
- Various Bandwidth
- High Reliability and Stability

### APPLICATIONS

- Optical Amplifying Systems
- Telecommunication Networks
- Research Labs

### SPECIFICATIONS

| Parameters   | Unit                       | Single Stage  | Dual Stage                                   |
|--|----------------------------|---|--|
| Center Wavelength  | nm                         | 1577.5  |  |
| Min. Pass Band Width @ 0.5dB                                     | nm                         | 5.0   |  |
| Stop Band @ 25dB   | nm                         | 1500~1572 & 1583~1610   |  |
| Insertion Loss@23°C  | dB                         | ≤1.2  | ≤1.4   |
| Signal Isolation (23°C)  | dB                         | ≥25   | ≥40  |
| Configuration  | D Type                     | -   | 2-port                                       |
|  | Y Type                     | -   | 3-port, (Blocked Wavelength Guide Out)       |
|  | X Type                     | -   | 4-port, (Both Block Wavelength Guide Out)    |
| Fiber Type at 3 <sup>rd</sup> or 4 <sup>th</sup> Port (Y/X Type) | -                          | Same Fiber, Corr. SM Fiber or 50/125um MM Fiber   |  |
| ASE Direction  | Forward Type               | -   | Bandpass Filter is before isolator           |
|  | Backward Type              | -   | Bandpass Filter is after isolator            |
|  | Twin Type                  | -   | Bandpass Filter is at both sides of isolator |
| Optical Return Loss  | dB                         | ≥45   |  |
| Extinction Ratio   | dB                         | ≥20   |  |
| Work Mode  | S Type                     | -   | Can only work in slow axis                   |
|  | F Type                     | -   | Can work both in slow axis and fast axis     |
| Fiber Type   | -                          | PM1550 Panda Fiber or 10/125um PMDC Fiber (O)<br>12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q)<br>25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G) |  |
| Max. Optical Power (CW)  | mW                         | 300   |  |
| Operating Temperature  | °C                         | 0~70  |  |
| Storage Temperature  | °C                         | -40~85  |  |
| Package  | Stainless Steel Tube (SST) | mm  | (Ø)5.5x35                                    |
| Dimension  | Metal Box                  | mm  | (L)120x(W)12x(H)10                           |

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  3. Suggest to use Y or X type if blocked optical power is >1W.
  4. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

### ORDERING INFORMATION (PN)

**FHBP-1577.5-C NN C C - (C) (C) - (C) C C NN - CC/CCC**

| Stage           | Bandwidth | ASE Type   | Work Mode | 3rd Port Fiber   | 4th Port Fiber     | Package       | Fiber Type          | Fiber Sleeve  | Fiber Length | Connector Type          |
|-----------------|-----------|------------|-----------|------------------|--------------------|---------------|---------------------|---------------|--------------|-------------------------|
| S= Single Stage | 50=5nm    | F= Forward | S= S Type | Y=Same Fiber     | Y=Same Fiber       | M=Metal Box   | 2=PM1550Fiber       | B= Bare fiber | 05=0.5m      | N=Without Connector     |
| D= Dual Stage   |           | B=Backward | F= F Type | S=Corr. SM Fiber | S=Corr. SM Fiber   | Blank for SST | 0=10/125 PMDC Fiber | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |
|                 |           | T=Twin     |           | 5=50/125um Fiber | 5=50/125um Fiber   |               | T=12/130 PMDC Fiber | 2= 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |
|                 |           |            |           | Blank for D Type | Blank for D&Y Type |               | G=25/300 PMDC Fiber | 3= 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |

