

## 976nm High Power Bandpass Filter

### FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Research Labs
- Laser Systems



### SPECIFICATIONS

| Parameters                               | Unit                       | Value   |   |
|--|----------------------------|---|---|
| Center Wavelength                        | nm                         | 976   |   |
| Min. Pass Band Width @ 0.5dB             | nm                         | 2.5   |   |
| Insertion Loss over Pass Band Wavelength | dB                         | ≤1.2  |   |
| Stop wavelength (ASE)                    | nm                         | 950~972&980~1100                                |   |
| Stop Wavelength                          | Standard                   | dB  | ≥25   |
| (ASE) Isolation                          | High Isolation             | dB  | ≥45   |
| ASE Direction                            | -                          | F: Forward, B: Backward, T: Two-way             |   |
| Configuration                            | -                          | D: 2-port, Y: 3-port, X: 4-port                 |   |
| Optical Return Loss                      | dB                         | ≥50   |   |
| Polarization Dependent Loss              | dB                         | ≤0.15   |   |
| Fiber Type                               | Input&Output               | -   | HI1060 Fiber or 10/125um SC Fiber (E)<br>10/125um DC Fiber (O), 15/130um DC Fiber (W)<br>20/130um DC Fiber (Q) or 25/250um DC Fiber (R) |
|  | ASE Guide Out (Y/X Type)   | -   | Same Fiber or MM Fiber  |
| Fiber Tensile Load                       | N                          | 5   |   |
| Max. Optical Power (CW, ASE+Signal)      | W                          | 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100 |   |
| Max. ASE Optical Power (CW)              | W                          | 0.3, 0.5, 1, 2, 3, 4, 5, 10                     |   |
| Operating Temperature                    | °C                         | 0~50  |   |
| Storage Temperature                      | °C                         | -40~85  |   |
| Package Dimension                        | Stainless Steel Tube (SST) | mm  | ∅5.5x <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)  |
|  | Metal Box                  | mm  | H: <sup>L</sup> 90x <sup>W</sup> 12x <sup>H</sup> 10 (>10W); M: <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 (≤10W)               |

**Note:** 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.5dB higher, RL is 5dB lower.

3. Suggest to use Y/X type or H Box if blocked optical power is ≥1W.

4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

5. 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.

6 Package size may be different for different optical power and configurations.

### ORDERING INFORMATION (PN)

| Bandwidth | ASE Type                | ASE Iso             | Fwd ASE Fiber                     | Bwd ASE Fiber                                | Optical Power    | ASE Power                 | Package                        | Fiber Type                                  | Fiber Sleeve                   | Fiber Length       | Connector Type                                   |
|-----------|-------------------------|---------------------|-----------------------------------|--|------------------|---------------------------|--------------------------------|---|--------------------------------|--------------------|--|
| 25=2.5nm  | B=Backward<br>T=Two-way | I=High<br>Isolation | Y=Same Fiber<br>A=105/125um Fiber | Y=Same Fiber<br>A=105/125um Fiber            | 1=1W<br>5=5W     | 1=1W<br>5=5W              | M=Metal Box<br>H=H Box         | E=10/125 SC Fiber<br>Q=20/130 DC Fiber      | B= Bare fiber<br>L= Loose Tube | 05=0.5m<br>10=1.0m | N=Without Connector<br>FC/APC=FC/APC Connector   |
|           | Blank for Forward       | Blank for           | N=None<br>Blank for D Type        | 5=50/125um Fiber<br>Blank for None or D Type | 10=10W<br>20=20W | 10=10W<br>Blank for 300mW | Blank for SST<br>Blank for SST | R=25/250 DC Fiber<br>Blank for HI1060 Fiber | 2= 2mm Cable<br>3= 3mm Cable   | 15=1.5m<br>20=2.0m | LC/PC=LC/PC Connector<br>SC/UPC=SC/UPC Connector |

