

## 1528nm 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
- Laser Systems
- Research Labs



### SPECIFICATIONS

| Parameters                               |                            | Unit | Value                                                   |
|------------------------------------------|----------------------------|------|---------------------------------------------------------|
| Center Wavelength                        |                            | nm   | 1528                                                    |
| Min. Pass Band Width @ 0.5dB             |                            | nm   | 0.3, 0.7, 3.0                                           |
| Insertion Loss over Pass Band Wavelength |                            | dB   | ≤1.0                                                    |
| Stop Wavelength (ASE)                    | 0.3nm Bandwidth            | nm   | 1500~1527 & 1529~1600                                   |
|                                          | 0.7nm Bandwidth            | nm   | 1500~1526.5 & 1529.5~1600                               |
|                                          | 3nm Bandwidth              | nm   | 1500~1524 & 1532~1600                                   |
| Stop Wavelength (ASE)                    | Standard                   | dB   | ≥25                                                     |
| 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               | -    | SMF-28 Fiber or 10/130um DC Fiber NA=0.08 (O)           |
|                                          |                            |      | 10/130um DC Fiber NA=0.15 (O2) or 12/130um DC Fiber (T) |
|                                          |                            |      | 25/250um DC Fiber (R) or 25/300um DC Fiber (G)          |
|                                          | ASE Guide Out (Y/X Type)   | -    | Same Fiber or MM Fiber                                  |
| Fiber Tensile Load                       |                            | N    | 5                                                       |
| Max. Optical Power (CW, ASE+Signal)      |                            | mW   | 300                                                     |
| Operating Temperature                    |                            | °C   | 0~70                                                    |
| Storage Temperature                      |                            | °C   | -40~85                                                  |
| Package Dimension                        | Stainless Steel Tube (SST) | mm   | ∅5.5x <sup>L</sup> 35                                   |
|                                          | Metal Box                  | mm   | <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10      |

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB higher, RL is 5dB lower.
  - 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.
  - Package size may be different for different optical power and configurations.

### ORDERING INFORMATION (PN)

| FFBP-1528- <b>NN(C)</b> (C) - (C) (C) -(C) (C) C <b>NN</b> - CC/CCC |                   |           |                   |                          |               |                        |               |              |                         |
|---------------------------------------------------------------------|-------------------|-----------|-------------------|--------------------------|---------------|------------------------|---------------|--------------|-------------------------|
| Bandwidth                                                           | ASE Type          | ASE Iso   | Fwd ASE Fiber     | Rev ASE Fiber            | Package       | Fiber Type             | Fiber Sleeve  | Fiber Length | Connector Type          |
| 03=0.3nm                                                            | B=Backward        | I=High    | Y=Same Fiber      | Y=Same Fiber             | M=Metal Box   | O=10/130 DC Fiber      | B= Bare fiber | 05=0.5m      | N=Without Connector     |
| 07=0.7nm                                                            | T=Two-way         | Isolation | A=105/125um Fiber | A=105/125um Fiber        | Blank for SST | T=12/130 DC Fiber      | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |
| 30=3nm                                                              | Blank for Forward | Blank for | N=None            | S=50/125um Fiber         |               | G=25/300 DC Fiber      | 2= 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |
|                                                                     |                   | Standard  | Blank for D Type  | Blank for None or D Type |               | Blank for SMF-28 Fiber | 3= 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |

