

1612nm 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 | 1612 | |
| Min. Pass Band Width @ 0.5dB | nm | 5.0 | |
| Insertion Loss over Pass Band Wavelength | dB | ≤1.2 | |
| Stop Wavelength (ASE) | nm | 1550~1607 & 1617~1650 | |
| 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 ^L 35 |
| | Metal Box | mm | ^L 120x ^W 12x ^H 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-1612-NN(C) | (C) | (C) | (C) | -(C) | (C) | C | NN | -CC/CCC | |
|-----------------|--|---|---|---|------------------------------|---|--|--|--|
| Bandwidth | ASE Type | ASE Iso | Fwd ASE Fiber | Dwd ASE Fiber | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
| 50=5nm | B=Backward T=Two-way Blank for Forward | I=High Isolation Blank for Standard | Y=Same Fiber A=105/125um Fiber N=None Blank for D Type | Y=Same Fiber A=105/125um Fiber 5=50/125um Fiber Blank for None or D Type | M=Metal Box Blank for SST | O=10/130 DC Fiber T=12/130 DC Fiber G=25/300 DC Fiber Blank for SMF-28 Fiber | B= Bare fiber L= Loose Tube 2= 2mm Cable 3= 3mm Cable | 05=0.5m 10=1.0m 15=1.5m 20=2.0m | N=Without Connector FC/APC=FC/APC Connector LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector |