# 1092nm 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
- Laser Systems
- Research Labs

## Specifications

| Parameters | | Unit | Value |
|---|---|---|---|
| Center Wavelength | | nm | 1092 |
| Min. Pass Band Width @ 0.5dB | | nm | 8.0 |
| Insertion Loss over Pass Band Wavelength | | dB | ≤1.2 |
| Stop Wavelength (ASE) | | nm | 1000~1084&1100~1150 |
| 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 | - | HI1060 Fiber or 10/125um SC Fiber (E) |
| | | | 10/125um DC Fiber (O), 15/130um DC Fiber (W) |
| | | | 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 | Ø5.5xL35 (≤5W); Ø6.0xL50 (5~10W) |
| | Metal Box | mm | L90xW12xH10 (>10W); L120xW12xH10 (≤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 fiber type, optical power and configurations.

## Ordering Information (PN)

**FFBP-1092-NN(C)(C) (C) (C) - HPNN - (NN) - (C) (C) C NN - CC/CCC**

| Bandwidth | ASE Type | ASE Iso | Fwd ASE Fiber | Bwd ASE Fiber | Optical Power | ASE Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 80=8nm | B=Backward | I=High | Y=Same Fiber | Y=Same Fiber | 1= 1W | 1= 1W | M=Metal Box | E=10/125 SC Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| | T=Two-way | Isolation | A=105/125um Fiber | A=105/125um Fiber | 5= 5W | 5= 5W | H=H Box | Q=20/130 DC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | Blank for Forward | Blank for | N=None | 5=50/125um Fiber | 10=10W | 10=10W | Blank for SST | R=25/250 DC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | | Standard | Blank for D Type | Blank for None or D Type | 20=20W | Blank for300mW | | Blank for HI1060 Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |