

1120nm High Power Bandpass Filter/Isolator Hybrid for Pulse Power

FEATURES

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

APPLICATIONS

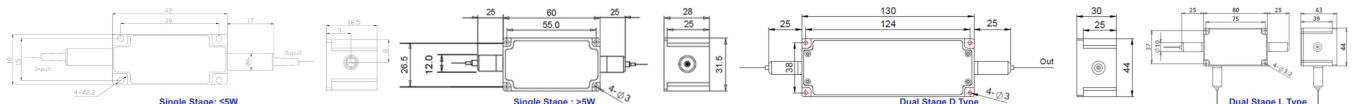
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs
- Sensing System

SPECIFICATIONS

| Parameters | Unit | Single Stage | Dual Stage |
|------------------------------------|--------------------------|---|---|
| Center Wavelength | nm | 1120 | |
| Min. Pass Band Width @ 0.5dB | nm | 10.0 | |
| Stop Wavelength (ASE) | nm | 1030~1110&1130~1200 | |
| Insertion Loss@23°C | dB | ≤1.5 (Typ. 0.8) | ≤1.8 (Typ. 1.0) |
| Signal Isolation (23°C) | dB | ≥20 | ≥35 |
| Stop Wavelength (ASE) Isolation | dB | Standard: ≥25; High Isolation: ≥45 | |
| ASE Direction | - | F: Forward, B: Backward, T: Two-way | |
| Configuration | - | D: 2-port, Y: 3-port, X: 4-port | |
| Optical Return Loss | dB | ≥45 | |
| PDL | dB | ≤0.3 | |
| 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 |
| Max. Signal Average Optical Power | W | 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50, 60 | |
| Max. Peak Power for pulse | kW | 0.1, 1, 2, 3, 5, 10, 15, 20 | |
| Max. Backward Signal Average Power | W | 0.3, 0.5, 1, 2, 3, 5, 10 | |
| Max. ASE Average Optical Power | W | 0.3, 0.5, 1, 2, 3, 5, 10 | |
| Operating Temperature | °C | 0~50 | |
| Storage Temperature | °C | -20~75 | |

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.5dB higher, RL is 5dB lower.
 - Suggest to use Y or X type if blocked optical power is >1W.
 - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 - 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 fiber type, optical power and configurations.

PACKAGE DIMENSION



ORDERING INFORMATION (PN)

FHBI-1120-(C)NN(C) (C) - (C) (C) (C) -H NN PNN -(NN/NN)-(C) C NN - CC/CCC

| Stage | Bandwidth | ASE Type | ASE Iso | Fwd ASE Fiber | Bwd ASE/Signal Fiber | Bwd Signal | Signal Ave. Power | Peak Power | ASE/Bwd Power | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|-----------|-----------|-------------------|------------------|-------------------|-----------------------|--------------|-------------------|------------|-----------------|------------------------|---------------|--------------|-------------------------|
| D=D Type | 100~10nm | B=Backward | I=High | Y=Same Fiber | Y=Same Fiber | Guide Out | 0.5-500mW | 0.1-100W | 1-1W | E=10/125 SC Fiber | B= Bare fiber | 0.5-0.5m | N=Without Connector |
| L=L Type | | T=Two-way | Isolation | A=105/125um Fiber | A=105/125um Fiber | Y=Yes | 1-1W | 1-1kW | 5-5W | Q=20/130 DC Fiber | L= Loose Tube | 10-1.0m | FC/APC=FC/APC Connector |
| Blank for | | Blank for Forward | Blank for | N=None | 5=50/125um Fiber | Blank for No | 10-10W | 5-5kW | 10-10W | R=25/250 DC Fiber | 2= 2mm Cable | 15-1.5m | LC/PC=LC/PC Connector |
| Single | | Standard | Blank for D Type | Blank for D Type | Blank for None/D Type | | 20-20W | 10-10kW | Blank for 300mW | Blank for HI1060 Fiber | 3= 3mm Cable | 20-2.0m | SC/APC=SC/APC Connector |

