

## 1021nm High Power BP Filter/Tap Hybrid

### 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                         | 1021  |  |
| Min. Pass Band Width @ 0.5dB    | nm                         | 6.0   |  |
| Excess Loss                     | dB                         | ≤1.6  |  |
| Stop Wavelength (ASE)           | nm                         | 1000~1015&1027~1100   |  |
| Stop Wavelength (ASE) Isolation | dB                         | Standard: ≥25; High Isolation ≥45   |  |
| Tap Ratio                       | %                          | 1+/-0.6%, 2+/-0.8%, 5+/-1.0%, 10%, 20%, 30%, 50%  |  |
| Tap Position                    | F Type (Forward)           | - Tap is before Bandpass Filter, Y Type (3-port)  |  |
| Optical Return Loss             | dB                         | ≥50   |  |
| PDL                             | 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) |  |
|                                 | Tap Port                   | - Same Fiber, HI1060 Fiber or MM Fiber  |  |
| Fiber Tensile Load              | N                          | 5   |  |
| Max. Optical Power (CW)         | W                          | 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60  |  |
| Operating Temperature           | °C                         | 0~50  |  |
| Storage Temperature             | °C                         | -40~85  |  |
| Package Dimension               | Stainless Steel Tube (SST) | mm  | ∅5.5x <sup>L</sup> 40 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W) |
|                                 | Metal Box                  | mm  | <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. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4. 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.

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

### ORDERING INFORMATION (PN)

**FHBT-1021-NN (C) NN C - HPNN - (C) (C) C NN - CC/CCC**

| Bandwidth | ASE Iso   | Tap Ratio | Tap Port Fiber   | Optical Power | Package       | Fiber Type             | Fiber Sleeve  | Fiber Length | Connector Type          |
|-----------|-----------|-----------|------------------|---------------|---------------|------------------------|---------------|--------------|-------------------------|
| 60=6nm    | I=High    | 01=1%     | Y=Same Fiber     | 1=1W          | M=Metal Box   | E=10/125 SC Fiber      | B= Bare fiber | 05=0.5m      | N=Without Connector     |
|           | Isolation | 05=5%     | H=HI1060 Fiber   | 5=5W          | Blank for SST | Q=20/130 DC Fiber      | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |
|           | Blank for | 10=10%    | 5=50/125um Fiber | 10=10W        | or >10W       | R=25/250 DC Fiber      | 2= 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |
|           | Standard  | 50=50%    |                  | 20=20W        |               | Blank for HI1060 Fiber | 3= 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |