

## 2051nm BP Filter/Tap Hybrid for Pulse Power

### FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks



### SPECIFICATIONS

| Parameters                   | Unit                       | Value  |
|------------------------------|----------------------------|--|
| Center Wavelength            | nm                         | 2051   |
| Min. Pass Band Width @ 0.5dB | nm                         | 5.0  |
| Excess Loss                  | dB                         | ≤1.8   |
| Stop Band @25dB              | nm                         | 1970-2040 & 2062-2100  |
| Tap Ratio                    | %                          | 1+/-0.6%, 2+/-0.8%, 5+/-1.0%, 10%, 20%, 30%, 50%                                       |
| Tap Position                 | F Type (Forward)           | -  |
| Optical Return Loss          | dB                         | ≥50  |
| PDL                          | dB                         | ≤0.25  |
| Fiber Type                   | -                          | SMF-28 Fiber or SM1950 Fiber (V)<br>10/130um DC Fiber (O) or 25/250um DC Fiber (R)     |
| Fiber Tensile Load           | N                          | 5  |
| Max. Average Optical Power   | W                          | 0.3, 0.5, 1, 2, 3, 5, 10   |
| Max. Peak Power for pulse    | kW                         | 0.1, 1, 2, 3, 5, 10, 15, 20  |
| Operating Temperature        | °C                         | 0~50   |
| Storage Temperature          | °C                         | -40~85   |
| Package                      | Stainless Steel Tube (SST) | mm   |
| Dimension                    | Metal Box                  | mm   |
|                              |                            | (Ø)5.5x40 (≤5W); (Ø)6.0x48 (5~8W)<br>(L)90x(W)18x(H)10 (>8W); (L)120x(W)12x(H)10 (≤8W) |

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.3dB 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.

### ORDERING INFORMATION (PN)

| FHBT-2051-NN | NN        | C                | -H NN         | P NN       | -(C)          | (C)                    | C             | NN           | - CC/CCC                |
|--------------|-----------|------------------|---------------|------------|---------------|------------------------|---------------|--------------|-------------------------|
| Bandwidth    | Tap Ratio | Tap Port Fiber   | Average Power | Peak Power | Package       | Fiber Type             | Fiber Sleeve  | Fiber Length | Connector Type          |
| 50=5nm       | 01= 1%    | Y=Same Fiber     | 03=300mW      | 01=100W    | M=Metal Box   | V=SM1950 Fiber         | B= Bare fiber | 05=0.5m      | N=Without Connector     |
|              | 05=5%     | 5=50/125um Fiber | 1= 1W         | 1= 1kW     | Blank for SST | O=10/130 DC Fiber      | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |
|              | 10=10%    |                  | 5= 5W         | 5= 5kW     | or >8W        | R=25/250 DC Fiber      | 2= 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |
|              | 50=50%    |                  | 10=10W        | 10=10kW    |               | Blank for SMF-28 Fiber | 3= 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |