

## 1970nm High Power BP/Partial Mirror Hybrid

### 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                         | 1970   |   |
| Min. Bandwidth@0.5dB                                 | nm                         | 6.0  |   |
| Excess Loss  | dB                         | ≤1.5   |   |
| Stop Band @25dB                                      | nm                         | 1900-1960 & 1980-2050                          |   |
| Reflective Ratio                                     | %                          | 1±0.6, 2±0.8, 5±1, 10, 20, 30, 40, 50, 80, 90  |   |
| Configuration  | D Type                     | 2-port   |   |
|  | Y Type                     | 3-port, (Blocked Wavelength Guide Out)         |   |
| Fiber Type at 3 <sup>rd</sup> Port (Only for Y Type) | -                          | Same Fiber or 50/125um MM Fiber                |   |
| Optical Return Loss                                  | dB                         | ≥45  |   |
| PDL  | dB                         | ≤0.15  |   |
| Fiber Type   | -                          | SMF-28 Fiber or SM1950 Fiber (V)               |   |
|  | -                          | 10/130um DC Fiber (O) or 25/250um DC Fiber (R) |   |
| Fiber Tensile Load                                   | N                          | 5  |   |
| Max. Optical Power (CW)                              | W                          | 1, 2, 3, 5, 10                                 |   |
| Operating Temperature                                | °C                         | 0~50   |   |
| Storage Temperature                                  | °C                         | -40~85   |   |
| Package Dimension                                    | Stainless Steel Tube (SST) | mm   | (Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~8W)                 |
|  | Metal Box                  | mm   | (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. Suggest to use Y type 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.

### ORDERING INFORMATION (PN)

| FHBR-NNNN-        | NN        | NN         | - (C)            | -HP NN        | - (C)         | (C)                    | C             | NN           | -CC/CCC                 |
|-------------------|-----------|------------|------------------|---------------|---------------|------------------------|---------------|--------------|-------------------------|
| Center Wavelength | Bandwidth | Ref. Ratio | 3rd Port Fiber   | Optical Power | Package       | Fiber Type             | Fiber Sleeve  | Fiber Length | Connector Type          |
| 1970-1970nm       | 60-6nm    | 01=1%      | Y=Same Fiber     | 1=1W          | M=Metal Box   | V=SM1950 Fiber         | B= Bare fiber | 05=0.5m      | N=Without Connector     |
|                   |           | 05=5%      | 5=50/125um Fiber | 2=2W          | Blank for SST | O=10/130 DC Fiber      | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |
|                   |           | 50=50%     | Blank for D Type | 5=5W          | or >8W        | R=25/250 DC Fiber      | 2= 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |
|                   |           | 90=90%     |                  | 10=10W        |               | Blank for SMF-28 Fiber | 3= 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |