



1550nm BP/Partial Mirror Hybrid ($\geq 10\text{nm BW}$)

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 | 1550 | |
| Min. Bandwidth@0.5dB | nm | 10, 15, 20 | |
| Excess Loss | dB | ≤ 1.3 | |
| Stop Band @25dB | 10nm Bandwidth | 1520~1540 & 1560~1610 | |
| | 15nm Bandwidth | 1500~1537 & 1563~1610 | |
| | 20nm Bandwidth | 1500~1533 & 1567~1610 | |
| Reflective Ratio | % | 1 \pm 0.6, 2 \pm 0.8, 5 \pm 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 rd 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 10/130um DC Fiber (O) | |
| | | 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) | |
| | | 25/250um DC Fiber (R) or 25/300um DC Fiber (G) | |
| Fiber Tensile Load | N | 5 | |
| Max. Optical Power (CW) | mW | 300 | |
| Operating Temperature | $^{\circ}\text{C}$ | 0~70 | |
| Storage Temperature | $^{\circ}\text{C}$ | -40~85 | |
| Package Dimension | Stainless Steel Tube (SST) | mm | (\varnothing)5.5x35 |
| | Metal Box | mm | (L)120x(W)12x(H)10 |

- 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 $> 1\text{W}$.
 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)

| FHBR-NNNN | - NNN | NN | - (C) | - (C) | (C) | C | NN | -CC/CCC |
|-------------------|-----------|------------|------------------|---------------|------------------------|---------------|--------------|-------------------------|
| Center Wavelength | Bandwidth | Ref. Ratio | 3rd Port Fiber | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
| 1550-1550nm | 100-10nm | 01-1% | Y=Same Fiber | M=Metal Box | O=10/130 DC Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| | 150-15nm | 05-5% | 5=50/125um Fiber | Blank for SST | T=12/130 DC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | 200-20nm | 50-50% | Blank for D Type | | G=25/300 DC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | | 90-90% | | | Blank for SMF-28 Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |