



## 1570nm BP/Partial Mirror 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                         | 1570                                                   |
| Min. Bandwidth@0.5dB                                 | nm                         | 4.0, 9.0, 15.0                                         |
| Excess Loss                                          | dB                         | ≤1.3                                                   |
| Stop Band @25dB                                      | 4nm Bandwidth              | 1520~1556 & 1574~1610                                  |
|                                                      | 9nm Bandwidth              | 1520~1560 & 1580~1610                                  |
|                                                      | 15nm Bandwidth             | 1520~1557 & 1583~1610                                  |
| 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 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. Average Optical Power                           | W                          | 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20                       |
| Max. Peak Power for pulse                            | kW                         | 0.1, 1, 2, 3, 5, 10, 15, 20                            |
| Operating Temperature                                | °C                         | 0~70                                                   |
| Storage Temperature                                  | °C                         | -40~85                                                 |
| Package Dimension                                    | Stainless Steel Tube (SST) | mm (Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W)                  |
|                                                      | Metal Box                  | mm (L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 (≤10W) |

- 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)

| Center Wavelength | Bandwidth | Ref. Ratio | 3rd Port Fiber   | Average Power | Peak Power | Package       | Fiber Type             | Fiber Sleeve  | Fiber Length | Connector Type          |
|-------------------|-----------|------------|------------------|---------------|------------|---------------|------------------------|---------------|--------------|-------------------------|
| 1570=1570nm       | 40=4nm    | 01= 1%     | Y=Same Fiber     | 03=300mW      | 01=100W    | M=Metal Box   | O=10/130 DC Fiber      | B= Bare fiber | 05=0.5m      | N=Without Connector     |
|                   | 90=9nm    | 05=5%      | 5=50/125um Fiber | 1= 1W         | 1= 1kW     | Blank for SST | T=12/130 DC Fiber      | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |
|                   | 150=15nm  | 50=50%     | Blank for D Type | 5= 5W         | 5= 5kW     | or >10W       | G=25/300 DC Fiber      | 2= 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |
|                   |           | 90=90%     |                  | 10=10W        | 10=10kW    |               | Blank for SMF-28 Fiber | 3= 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |