

## 1970nm High Power PM BP/Isolator Hybrid

### FEATURES

- Low Insertion Loss
- High Reliability and Stability

### APPLICATIONS

- Optical Amplifying Systems
- Telecommunication Networks



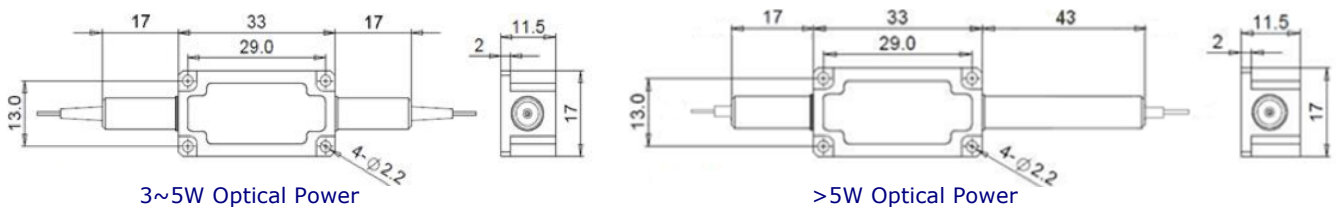
### SPECIFICATIONS

| Parameters   | Unit                       | Single Stage   | Dual Stage                                   | H Stage  |
|--|----------------------------|--|--|----------|
| Center Wavelength  | nm                         | 1970   |  |          |
| Min. Pass Band Width @ 0.5dB                                     | nm                         | 6.0  |  |          |
| Stop Band @25dB  | nm                         | 1900-1960 & 1980-2050  |  |          |
| Insertion Loss@23°C  | dB                         | ≤1.6   | ≤1.9   | ≤1.9     |
| Signal Isolation (23°C)  | dB                         | ≥16  | ≥30  | ≥25      |
| Configuration  | D Type                     | -  | 2-port                                       |          |
|  | Y Type                     | -  | 3-port, (Blocked Wavelength Guide Out)       |          |
|  | X Type                     | -  | 4-port, (Both Block Wavelength Guide Out)    |          |
| Fiber Type at 3 <sup>rd</sup> or 4 <sup>th</sup> Port (Y/X Type) | -                          | Same Fiber, Corr. SM Fiber or 50/125um MM Fiber  |  |          |
| ASE Direction  | Forward Type               | -  | Bandpass Filter is before isolator           |          |
|  | Backward Type              | -  | Bandpass Filter is after isolator            |          |
|  | Twin Type                  | -  | Bandpass Filter is at both sides of isolator |          |
| Optical Return Loss/Extinction Ratio                             | dB                         | ≥45 / ≥18  |  |          |
| Work Mode  | S Type                     | -  | Can only work in slow axis                   |          |
|  | F Type                     | -  | Can work both in slow axis and fast axis     |          |
| Fiber Type   | -                          | PM1550 Panda Fiber or PM1950 Fiber (V)<br>10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R) |  |          |
| Max. Optical Power (CW)  | W                          | 0.3, 0.5, 1, 2   |  | 3, 5, 10 |
| Operating Temperature  | °C                         | 0~50   |  |          |
| Storage Temperature  | °C                         | -40~85   |  |          |
| Package  | Stainless Steel Tube (SST) | mm   | (∅)5.5x35                                    |          |
| Dimension  | Metal Box                  | mm   | (L)120x(W)12x(H)10                           |          |

See Drawing

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Suggest to use Y or X type if blocked optical power is >1W.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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.

### PACKAGE DIMENSION (H STAGE)



### ORDERING INFORMATION (PN)

FHBP-1970-C NN C C - (C) (C) -HP NN -(C) C C NN -CC/CCC

| Stage           | Bandwidth | ASE Type   | Work Mode | 3rd Port Fiber   | 4th Port Fiber     | Optical Power | Package       | Fiber Type          | Fiber Sleeve  | Fiber Length | Connector Type          |
|-----------------|-----------|------------|-----------|------------------|--------------------|---------------|---------------|---------------------|---------------|--------------|-------------------------|
| S= Single Stage | 60~6nm    | F= Forward | S= S Type | Y=Same Fiber     | Y=Same Fiber       | 03=300mW      | M= Metal Box  | 2=PM1550Fiber       | B= Bare fiber | 05=0.5m      | N=Without Connector     |
| D= Dual Stage   |           | B=Backward | F= F Type | S=Corr. SM Fiber | S=Corr. SM Fiber   | 1= 1W         | Blank for SST | V=PM1950 Fiber      | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |
| H= H Stage      |           | T=Twin     |           | 5=50/125um Fiber | 5=50/125um Fiber   | 5= 5W         | or >2W        | O=10/130 PMDC Fiber | 2= 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |
|                 |           |            |           | Blank for D Type | Blank for D&Y Type | 10=10W        |               | R=25/250 PMDC Fiber | 3= 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |