

# 1970nm PM Bandpass Filter for Pulse Power

## FEATURES

- High Isolation
- Low Insertion Loss
- Various Bandwidth
- High Reliability and Stability

## APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Research Labs

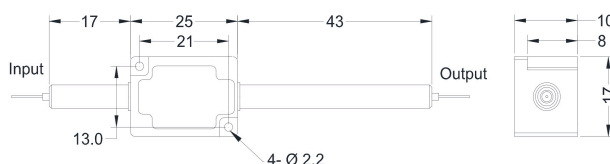


## SPECIFICATIONS

| Parameters                               | Unit                       | Standard   | High ER Type                                      |
|--|----------------------------|--|---|
| Center Wavelength                        | nm                         | 1970   |   |
| Min. Pass Band Width @ 0.5dB             | nm                         | 6.0  |   |
| Insertion Loss over Pass Band Wavelength | dB                         | ≤1.4   | ≤1.6  |
| Stop Band @ 25dB                         | nm                         | 1900-1960 & 1980-2050  |   |
| ASE Direction                            | -                          | F: Forward, B: Backward, T: Two-way  |   |
| Configuration                            | -                          | D: 2-port, Y: 3-port, X: 4-port  |   |
| Optical Return Loss                      | dB                         | ≥50  |   |
| Extinction Ratio                         | dB                         | ≥18  | ≥20   |
| Fiber Type                               | Input&Output               | PM1550 Panda Fiber or PM1950 Fiber (V)<br>10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R) |   |
|  | ASE Guide Out (Y/X Type)   | Same Fiber, Corr. SM Fiber or MM Fiber   |   |
| Fiber Tensile Load                       | N                          | 5  |   |
| Max. Average Optical Power (ASE+Signal)  | 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  |   |
| Max. ASE Average Power                   | W                          | 0.3, 0.5, 1, 2, 3, 4, 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)12x(H)10 (>8W); (L)120x(W)12x(H)10 (≤8W) |

- 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.
  - High ER type can only work in slow axis; Suggest to use Y/X type or H Box 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 H (FOR HIGH ASE POWER)



## ORDERING INFORMATION (PN)

FPBP-1970-NN(C)(C) (C) (C) - H NN P NN -(NN) -(C) C C NN -CC/CCC

| Bandwidth | Type      | ASE Type          | Fwd ASE Fiber            | Bwd ASE Fiber     | Average Power | Peak Power | ASE Power       | Package       | Fiber Type          | Fiber Sleeve  | Fiber Length | Connector Type          |
|-----------|-----------|-------------------|--------------------------|-------------------|---------------|------------|-----------------|---------------|---------------------|---------------|--------------|-------------------------|
| 60-6nm    | R=High ER | B=Backward        | Y=Same Fiber             | Y=Same Fiber      | 03=300mW      | 01=100W    | 1= 1W           | M=Metal Box   | 2=PM1550Fiber       | B= Bare fiber | 05=0.5m      | N=Without Connector     |
|           | Blank for | T=Two-way         | S=Corr. SM Fiber         | S=Corr. SM Fiber  | 1= 1W         | 1= 1kW     | 5= 5W           | H=H Box       | V=PM1950 Fiber      | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |
|           | Standard  | Blank for Forward | N=None                   | A=105/125um Fiber | 5= 5W         | 5= 5kW     | 10=10W          | Blank for SST | 0=10/130 PMDC Fiber | 2= 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |
|           |           | Blank for D Type  | Blank for None or D Type |                   | 10=10W        | 10=10kW    | Blank for 300mW |               | R=25/250 PMDC Fiber | 3= 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |

