

## 1018nm PM Bandpass Filter for Pulse Power

### FEATURES

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

### APPLICATIONS

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



### SPECIFICATIONS

| Parameters                               |                            | Unit | Standard   | High ER Type |
|--|----------------------------|------|--|--------------|
| Center Wavelength                        |                            | nm   | 1018   |              |
| Min. Pass Band Width @ 0.5dB             |                            | nm   | 2.0  |              |
| Insertion Loss over Pass Band Wavelength |                            | dB   | ≤1.2   | ≤1.4         |
| Stop Wavelength (ASE)                    |                            | nm   | 960~1014&1022~1100   |              |
| Stop Wavelength (ASE)                    | Standard                   | dB   | ≥25  |              |
| Isolation                                | High Isolation             | dB   | ≥50  |              |
| 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               | -    | PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)<br>10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W)<br>20/130um PMDC Fiber (Q) 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, 15, 20, 30, 50, 60, 80, 100  |              |
| 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   | ∅5.5x <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)   |              |
|  | Metal Box                  | mm   | H: <sup>L</sup> 90x <sup>W</sup> 12x <sup>H</sup> 10 (>10W); M: <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 (≤10W)  |              |

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.5dB 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 size may be different for different optical power and configurations.

### ORDERING INFORMATION (PN)

FPBP-1018-**NN(C)(C)(C)** (C) (C) - H **NN PNN** -(**NN**) -(**C**) **C** **C** **NN** -**CC/CCC**

| Bandwidth | Type      | ASE Type          | ASE Iso          | Fwd ASE Fiber            | Bwd ASE Fiber            | Average Power | Peak Power | ASE Power       | Package       | Fiber Type          | Fiber Sleeve  | Fiber Length | Connector Type          |
|-----------|-----------|-------------------|------------------|--------------------------|--------------------------|---------------|------------|-----------------|---------------|---------------------|---------------|--------------|-------------------------|
| 20~2nm    | R=High ER | B=Backward        | I=High           | Y=Same Fiber             | Y=Same Fiber             | 03=300mW      | 01=100W    | 1=1W            | M=Metal Box   | 2=PM980Fiber        | B= Bare fiber | 05=0.5m      | N=Without Connector     |
|           | Blank for | T=Two-way         | Isolation        | S=Corr. SM Fiber         | S=Corr. SM Fiber         | 1=1W          | 1=1kW      | 5=5W            | H=H Box       | E=PM1060L Fiber     | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |
|           | Standard  | Blank for Forward | Blank for        | N=None                   | A=105/125um Fiber        | 5=5W          | 5=5kW      | 10=10W          | Blank for SST | Q=20/130 PMDC Fiber | 2=2mm Cable   | 15=1.5m      | LC/PC=LC/PC Connector   |
|           |           | Standard          | Blank for D Type | Blank for None or 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 |

