

## 1070nm Multimode Bandpass Filter

### 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 | Value                               |
|--|----------------------------|------|-------------------------------------|
| Center Wavelength                        |                            | nm   | 1070                                |
| Min. Pass Band Width @ 0.5dB             |                            | nm   | 4.0                                 |
| Insertion Loss over Pass Band Wavelength |                            | dB   | ≤1.2                                |
| Stop Wavelength (ASE)                    |                            | nm   | 1000~1065&1075~1100                 |
| Stop Wavelength (ASE)                    | Standard                   | dB   | ≥25                                 |
| Isolation                                | High Isolation             | dB   | ≥45                                 |
| ASE Direction                            |                            | -    | F: Forward, B: Backward, T: Two-way |
| Configuration                            |                            | -    | D: 2-port, Y: 3-port, X: 4-port     |
| Optical Return Loss                      |                            | dB   | ≥30                                 |
| Fiber Type                               | Input&Output               | -    | 50/125um or 62.5/125um MM Fiber     |
|  |                            | -    | 50/125um MM OM3 Fiber               |
|  |                            | -    | 105/125um MM Fiber                  |
|  | ASE Guide Out (Y/X Type)   | -    | Same Fiber                          |
| Fiber Tensile Load                       |                            | N    | 5                                   |
| Max. Optical Power (CW, ASE+Signal)      |                            | mW   | 300                                 |
| Operating Temperature                    |                            | °C   | 0~50                                |
| Storage Temperature                      |                            | °C   | -40~85                              |
| Package Dimension                        | Stainless Steel Tube (SST) | mm   | ∅5.5xL35                            |
|  | Metal Box                  | mm   | L120xW12xH10                        |

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.3dB higher, RL is 10dB lower.
  3. Specifications are tested at low order modes.
  4. Devices for higher optical power or with other type fiber or consigned fiber are also available.
  5. Package size may be different for different optical power and configurations.

### ORDERING INFORMATION (PN)

| FMBP-1070-NN(C) (C) (C) (C) -(C) C C NN -CC/CCC |  |   |  |  |                              |  |  |  |  |
|---|--|---|--|--|------------------------------|--|--|--|--|
| Bandwidth                                       | ASE Type                                     | ASE Iso                                   | Fwd ASE Fiber                              | Bwd ASE Fiber                            | Package                      | Fiber Type   | Fiber Sleeve   | Fiber Length                             | Connector Type   |
| 40~4nm  | B=Backward<br>T=Two-way<br>Blank for Forward | I=High<br>Isolation<br>Blank for Standard | Y=Same Fiber<br>N=None<br>Blank for D Type | Y=Same Fiber<br>Blank for None or D Type | M=Metal Box<br>Blank for SST | 5= 50/125um MM Fiber<br>6= 62.5/125um MM Fiber<br>3= OM3 MM Fiber<br>A= 105/125um, NA=0.22<br>B=105/125um, NA=0.15 | B= Bare fiber<br>L= Loose Tube<br>2= 2mm Cable<br>3= 3mm Cable | 05=0.5m<br>10=1.0m<br>15=1.5m<br>20=2.0m | N=Without Connector<br>FC/APC=FC/APC Connector<br>LC/PC=LC/PC Connector<br>SC/UPC=SC/UPC Connector |