

1070nm High Power 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 | ≥50 |
| Polarization Dependent Loss | dB | ≤0.15 |
| Fiber Type | Input&Output | HI1060 Fiber or 10/125um SC Fiber (E) 10/125um DC Fiber (O), 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R) |
| | ASE Guide Out (Y/X Type) | Same Fiber or MM Fiber |
| Fiber Tensile Load | N | 5 |
| Max. Optical Power (CW, ASE+Signal) | W | 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100 |
| Max. ASE Optical Power (CW) | 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 ^L 35 (≤5W); ∅6.0x ^L 50 (5~10W) |
| | Metal Box | mm H: ^L 90x ^W 12x ^H 10 (>10W); M: ^L 120x ^W 12x ^H 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.
 - 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)

| Bandwidth | ASE Type | ASE Iso | Fwd ASE Fiber | Bwd ASE Fiber | Optical Power | ASE Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|-----------|-------------------------|---------------------|-----------------------------------|--|---------------------------|--------------------------|---|---|--|--|--|
| 40~4nm | B=Backward T=Two-way | I=High Isolation | Y=Same Fiber A=105/125um Fiber | Y=Same Fiber A=105/125um Fiber | 1= 1W 5= 5W 10=10W | 1= 1W 5= 5W 10=10W | M=Metal Box H=H Box Blank for SST | E=10/125 SC Fiber Q=20/130 DC Fiber R=25/250 DC Fiber Blank for HI1060 Fiber | B= Bare fiber L= Loose Tube 2= 2mm Cable 3= 3mm Cable | 05=0.5m 10=1.0m 15=1.5m 20=2.0m | N=Without Connector FC/APC=FC/APC Connector LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector |
| | Blank for Forward | Blank for Standard | N=None Blank for D Type | S=50/125um Fiber Blank for None or D Type | 20=20W Blank for 300mW | | | | | | |

