

1014nm 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
- Research Labs
- Laser Systems



SPECIFICATIONS

| Parameters | Unit | Value | |
|--|--|---|---|
| Center Wavelength | nm | 1014 | |
| Min. Pass Band Width @ 0.5dB | nm | 4.0 | |
| Insertion Loss over Pass Band Wavelength | dB | ≤1.2 | |
| Stop wavelength (ASE) | nm | 960~1010&1018~1100 | |
| Stop Wavelength (ASE) Isolation | Standard High Isolation | dB dB | ≥25 ≥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 ASE Guide Out (Y/X Type) | - - | 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) 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) Metal Box | mm mm | ∅5.5x ^L 35 (≤5W); ∅6.0x ^L 50 (5~10W) 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 | 1=1W 5=5W | M=Metal Box H=H Box | E=10/125 SC Fiber Q=20/130 DC Fiber | B= Bare fiber L= Loose Tube | 05=0.5m 10=1.0m | N=Without Connector FC/APC=FC/APC Connector |
| | Blank for Forward | Blank for | N=None Blank for D Type | 5=50/125um Fiber Blank for None or D Type | 10=10W 20=20W | 10=10W Blank for 300mW | Blank for SST | R=25/250 DC Fiber Blank for HI1060 Fiber | 2= 2mm Cable 3= 3mm Cable | 15=1.5m 20=2.0m | LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector |

