

1557nm Multimod 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 | 1557 | |
| Min. Pass Band Width @ 0.5dB | nm | 0.12, 0.3, 0.7, 2.0 | |
| Insertion Loss over Pass Band Wavelength | dB | ≤1.2 | |
| Stop Wavelength (ASE) | 0.12nm Bandwidth | nm | 1500~1556.4 & 1557.6-1610 |
| | 0.3nm Bandwidth | nm | 1500~1556 & 1558-1610 |
| | 0.7nm Bandwidth | nm | 1500~1555.5 & 1558.5-1610 |
| | 2nm Bandwidth | nm | 1500~1554 & 1560-1610 |
| 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 (OM2) or 62.5/125um (OM1) MM Fiber 50/125um OM3 MM Fiber (3) or OM4 MM Fiber(4) 105/125um MM Fiber, NA=0.12(D), 0.15(B), 0.22(A) |
| | ASE Guide Out (Y/X Type) | - | Same Fiber |
| Fiber Tensile Load | N | 5 | |
| Max. Optical Power (CW, ASE+Signal) | mW | 300 | |
| Operating Temperature | °C | 0~70 | |
| Storage Temperature | °C | -40~85 | |
| Package Dimension | Stainless Steel Tube (SST) | mm | ∅5.5x ^L 35 |
| | Metal Box | mm | ^L 120x ^W 12x ^H 10 |

- 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)

| Bandwidth | ASE Type | ASE Iso | Fwd ASE Fiber | Bwd ASE Fiber | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|------------|-------------------|-----------|------------------|--------------------------|---------------|---|---------------|--------------|-------------------------|
| 012=0.12nm | B=Backward | I=High | Y=Same Fiber | Y=Same Fiberr | M=Metal Box | 5= 50/125um MM Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| 03=0.3nm | T=Two-way | Isolation | N=None | Blank for None or D Type | Blank for SST | 6= 62.5/125um MM Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| 07=0.7nm | Blank for Forward | Blank for | Blank for D Type | | | 3= OM3 MM Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| 20=2nm | | Standard | | | | A= 105/125um, NA=0.22 B=105/125um, NA=0.15 | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |