

1550nm High Power Bandpass Filter/Isolator Hybrid ($\geq 10\text{nm BW}$)

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks

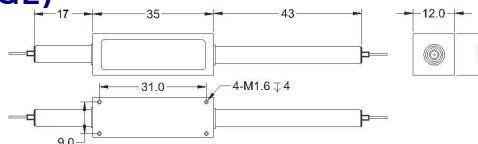


SPECIFICATIONS

| Parameters | Unit | Single Stage | Dual Stage | H Stage |
|--|----------------------------|---|---|------------|
| Center Wavelength | nm | 1550 | | |
| Min. Pass Band Width @ 0.5dB | nm | 10, 15, 20 | | |
| Stop Band @25dB | 10nm Bandwidth | nm | 1520~1540 & 1560~1610 | |
| | 15nm Bandwidth | nm | 1500~1537 & 1563~1610 | |
| | 20nm Bandwidth | nm | 1500~1533 & 1567~1610 | |
| Insertion Loss@23°C | dB | ≤ 1.2 | ≤ 1.4 | ≤ 1.6 |
| Signal Isolation (23°C) | dB | ≥ 30 | ≥ 45 | ≥ 25 |
| Configuration | D Type | - | 2-port | |
| | Y Type | - | 3-port, (Blocked Wavelength Guide Out) | |
| | X Type | - | 4-port, (Both Block Wavelength Guide Out) | |
| Fiber Type at 3 rd or 4 th Port (Y/X Type) | - | Same Fiber of other ports or 50/125um MM Fiber | | |
| ASE Direction | Forward Type | - | Bandpass Filter is before isolator | |
| | Backward Type | - | Bandpass Filter is after isolator | |
| | Twin Type | - | Bandpass Filter is at both sides of isolator | |
| Optical Return Loss | dB | ≥ 45 | | |
| PDL | dB | ≤ 0.2 | | |
| Fiber Type | - | SMF-28 Fiber or 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 25/250um DC Fiber (R) or 25/300um DC Fiber (G) | | |
| Max. Optical Power (CW) | W | 1, 2, 3, 5, 10 | | 15, 20 |
| Operating Temperature | °C | 0~50 | | |
| Storage Temperature | °C | -40~85 | | |
| Package | Stainless Steel Tube (SST) | mm | $(\varnothing)5.5 \times 35$ ($\leq 5\text{W}$); $(\varnothing)6.0 \times 48$ ($5 \sim 10\text{W}$) | |
| Dimension | Metal Box | mm | $(L)120 \times (W)12 \times (H)10$ | |

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.
 3. Suggest to use Y or X type if blocked optical power is $> 1\text{W}$.
 4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 5. 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 DIMENSION (H STAGE)



ORDERING INFORMATION (PN)

| Stage | Bandwidth | ASE Type | 3rd Port Fiber | 4th Port Fiber | Optical Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|-----------------|-----------|------------|------------------|--------------------|------------------|---------------|---|------------------------------|--------------------|--|
| S= Single Stage | 100=10nm | F= Forward | Y=Same Fiber | Y=Same Fiber | 1= 1W | M= Metal Box | O=10/130 DC Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| D= Dual Stage | 150=15nm | B=Backward | 5=50/125um Fiber | 5=50/125um Fiber | 5= 5W | Blank for SST | T=12/130 DC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| H= H Stage | 200=20nm | T=Twin | Blank for D Type | Blank for D&Y Type | 10=10W 20=20W | or >10W | G=25/300 DC Fiber Blank for SMF-28 Fiber | 2= 2mm Cable 3= 3mm Cable | 15=1.5m 20=2.0m | LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector |

