

1540nm Bandpass Filter/Isolator Hybrid (≥7nm BW)

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks



SPECIFICATIONS

| Parameters | Unit | Single Stage | Dual Stage |
|--|----------------------------|---|--|
| Center Wavelength | nm | 1540 | |
| Min. Pass Band Width @ 0.5dB | nm | 7.0, 10.0, 15.0 | |
| Stop Band @25dB | 7nm Bandwidth | 1510~1533 & 1547~1600 | |
| | 10nm Bandwidth | 1510~1530 & 1550~1600 | |
| | 15nm Bandwidth | 1510~1527.5 & 1552.5~1600 | |
| Insertion Loss@23°C | dB | ≤1.3 | ≤1.5 |
| Signal Isolation (23°C) | dB | ≥25 | ≥40 |
| 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) | mW | 300 | |
| Operating Temperature | °C | 0~50 | |
| Storage Temperature | °C | -40~85 | |
| Package | Stainless Steel Tube (SST) | mm | (Ø)5.5x35 |
| Dimension | 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 5dB lower.
 3. Suggest to use Y or X type if blocked optical power is >1W.
 4. 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.

ORDERING INFORMATION (PN)

| Stage | Bandwidth | ASE Type | 3rd Port Fiber | 4th Port Fiber | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|-----------------|-----------|------------|------------------|--------------------|---------------|------------------------|---------------|--------------|-------------------------|
| S= Single Stage | 70=7nm | F= Forward | Y=Same Fiber | Y=Same Fiber | M=Metal Box | O=10/130 DC Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| D= Dual Stage | 100=10nm | B=Backward | 5=50/125um Fiber | 5=50/125um Fiber | Blank for SST | T=12/130 DC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | 150=15nm | T=Twin | Blank for D Type | Blank for D&Y Type | | G=25/300 DC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | | | | | | Blank for SMF-28 Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |

