

2090nm PM 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 | Standard | High ER Type |
|--|----------------------------|------|--|--------------|
| Center Wavelength | | nm | 2090 | |
| Min. Pass Band Width @ 0.5dB | | nm | 20.0 | |
| Insertion Loss over Pass Band Wavelength | | dB | ≤1.8 | ≤2.0 |
| Stop Wavelength (ASE) | | nm | 2030-2070 & 2110-2150 | |
| 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 | |
| Extinction Ratio | | dB | ≥18 | ≥20 |
| Fiber Type | Input&Output | - | PM1550 Panda Fiber or PM1950 Fiber (V) | |
| | ASE Guide Out (Y/X Type) | - | 10/130um PMDC Fiber (O) or 25/400um PMDC Fiber (R) | |
| Fiber Tensile Load | | N | 5 | |
| Max. Optical Power (CW, ASE+Signal) | | mW | 300 | |
| Operating Temperature | | °C | 0~50 | |
| Storage Temperature | | °C | -40~85 | |
| Package Dimension | Stainless Steel Tube (SST) | mm | ∅5.5xL35 | |
| | Metal Box | mm | L120xW12xH10 | |

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 - High ER type can only work in slow axis.
 - 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 | Type | ASE Type | ASE Iso | Fwd ASE Fiber | Bwd ASE Fiber | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|-----------|-----------|-------------------|-----------|------------------|--------------------------|---------------|---------------------|---------------|--------------|-------------------------|
| 200~20nm | R=High ER | B=Backward | I=High | Y=Same Fiber | Y=Same Fiber | M=Metal Box | 2=PM1550Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| | Blank for | T=Two-way | Isolation | S=Corr. SM Fiber | S=Corr. SM Fiber | Blank for SST | V=PM1950 Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | Standard | Blank for Forward | Blank for | N=None | A=105/125um Fiber | | O=10/130 PMDC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | | | Standard | Blank for D Type | Blank for None or D Type | | R=25/400 PMDC Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |