

2040nm PM Bandpass Filter for Pulse Power

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 | 2040 | |
| Min. Pass Band Width @ 0.5dB | | nm | 10.0 | |
| Insertion Loss over Pass Band Wavelength | | dB | ≤1.4 | ≤1.6 |
| Stop Wavelength (ASE) | | nm | 1970-2028 & 2052-2100 | |
| Stop Wavelength (ASE) | Standard | dB | ≥25 | |
| | 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 25/250um PMDC Fiber (R) | |
| Fiber Tensile Load | | N | 5 | |
| Max. Average Optical Power (ASE+Signal) | | W | 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20 | |
| Max. Peak Power for pulse | | kW | 0.1, 1, 2, 3, 5, 10, 15, 20 | |
| Max. ASE Average Power | | 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) | mm | ∅5.5xL35 (≤5W); ∅6.0xL50 (5~10W) | |
| | Metal Box | mm | H: L90xW12xH10 (>10W); M: L120xW12xH10 (≤10W) | |

- 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; 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)

FPBP-2040-NNN(C)(C)(C) (C) (C) - HNN P NN -(NN) - (C) C C NN - CC/CC

| Bandwidth | Type | ASE Type | ASE Iso | Fwd ASE Fiber | Bwd ASE Fiber | Average Power | Peak Power | ASE Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|-----------|-----------|-------------------|------------------|--------------------------|-------------------|---------------|------------|-----------------|---------------|---------------------|---------------|--------------|-------------------------|
| 100-10nm | R=High ER | B=Backward | I=High | Y=Same Fiber | Y=Same Fiber | 03-300mW | 01-100W | 1-1W | 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 | 1-1W | 1-1kW | 5-5W | H=H Box | 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 | 5-5W | 5-5kW | 10-10W | Blank for SST | 0=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 | | 10-10W | 10-10kW | Blank for 300mW | | R=25/250 PMDC Fiber | 3= 3mm Cable | 20-2.0m | SC/UPC=SC/UPC Connector |