

1014nm 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 | 1014 | |
| Min. Pass Band Width @ 0.5dB | nm | 4.0 | |
| Insertion Loss over Pass Band Wavelength | dB | ≤1.2 | ≤1.4 |
| Stop Wavelength (ASE) | nm | 960~1010&1018~1100 | |
| Stop Wavelength (ASE) Standard | dB | ≥25 | |
| Isolation High Isolation | dB | ≥50 | |
| 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 | - | PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R) |
| | ASE Guide Out (Y/X Type) | - | Same Fiber, Corr. SM Fiber or MM Fiber |
| Fiber Tensile Load | N | 5 | |
| Max. Average Optical Power (ASE+Signal) | W | 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 50, 60, 80, 100 | |
| 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 | ∅5.5x ^L 35 (≤5W); ∅6.0x ^L 50 (5~10W) |
| | Metal Box | mm | H: ^L 90x ^W 12x ^H 10 (>10W); M: ^L 120x ^W 12x ^H 10 (≤10W) |

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.5dB 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-1014-NN(C)(C)(C) (C) (C) - H NN PNN -(NN) -(C) C C NN -CC/CCC

| 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 |
|-----------|-----------|-------------------|------------------|--------------------------|-------------------|---------------|-----------------|-----------|---------------|---------------------|---------------|--------------|-------------------------|
| 40-4nm | R=High ER | B=Backward | I=High | Y=Same Fiber | Y=Same Fiber | 03=300mW | 01=100W | 1=1W | M=Metal Box | 2=PM980Fiber | 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 | E=PM1060L 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 | Q=20/130 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 |

