

1040nm High Power PM Bandpass Filter/Isolator Hybrid for Pulse Power

FEATURES

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

APPLICATIONS

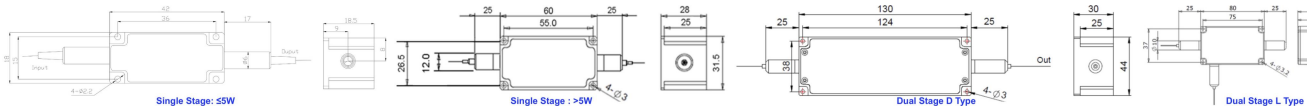
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs

SPECIFICATIONS

| Parameters | Unit | Single Stage | Dual Stage |
|------------------------------------|--------------------------|---|--|
| Center Wavelength | nm | 1040 | |
| Min. Pass Band Width @ 0.5dB | nm | 2.0, 5.0, 8.0, 12 | |
| Stop Wavelength (ASE) | 2nm Bandwidth | nm | 1000~1037&1043~1100 |
| | 5nm Bandwidth | nm | 1000~1034&1046~1100 |
| | 8nm Bandwidth | nm | 1000~1032&1048~1100 |
| | 12nm Bandwidth | nm | 1000~1027&1053~1100 |
| Insertion Loss@23°C | dB | ≤1.5 (Typ. 0.8) | ≤1.8 (Typ. 1.0) |
| Signal Isolation (23°C) | dB | ≥22 | ≥40 |
| Stop Wavelength (ASE) Isolation | dB | Standard: ≥25; High Isolation: ≥45 | |
| ASE Direction | - | F: Forward, B: Backward, T: Two-way | |
| Configuration | - | D: 2-port, Y: 3-port, X: 4-port | |
| Optical Return Loss | dB | ≥45 | |
| Extinction Ratio | dB | ≥18 | |
| Work Mode | S Type | - | Can only work in slow axis |
| | F Type | - | Can work both in slow axis and fast axis |
| Fiber Type | Input&Output | - | PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) |
| | | - | 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) |
| | ASE Guide Out (Y/X Type) | - | 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R) |
| Max. Signal Average Optical Power | W | 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50, 60 | |
| Max. Peak Power for pulse | kW | 0.1, 1, 2, 3, 5, 10, 15, 20 | |
| Max. Backward Signal Average Power | W | 0.3, 0.5, 1, 2, 3, 5, 10 | |
| Max. ASE Average Optical Power | W | 0.3, 0.5, 1, 2, 3, 5, 10 | |
| Operating Temperature | °C | 0~50 | |
| Storage Temperature | °C | -20~75 | |

- 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.
 - Suggest to use Y or X type 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 fiber type, optical power and configurations.

PACKAGE DIMENSION



ORDERING INFORMATION (PN)

FHBP-1040-(C)NN(C)(C) C - (C) (C) (C)-H NN PNN -(NN/NN)-C C NN - CC/CCC

| Stage | Bandwidth | ASE Type | ASE Iso | Work Mode | Fwd ASE Fiber | Bwd ASE/Signal Fiber | Bwd Signal | Signal Ave. Power | Peak Power | ASE/Bwd Power | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|-----------|-----------|-------------------|-----------|-----------|-------------------|-----------------------|--------------|-------------------|------------|-----------------|---------------------|---------------|--------------|-------------------------|
| D=D Type | 20=2nm | B=Backward | I=High | S= S Type | Y=Same Fiber | Y=Same Fiber | Guide Out | 05=500mW | 01=100W | 1= 1W | 2=PM980Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| L=L Type | 50=5nm | T=Two-way | Isolation | F= F Type | A=105/125um Fiber | A=105/125um Fiber | Y=Yes | 1= 1W | 1= 1kW | 5= 5W | E=PM1060L Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| Blank for | 80=8nm | Blank for Forward | Blank for | | N=None | 5=50/125um Fiber | Blank for No | 10=10W | 5= 5kW | 10=10W | Q=20/130 PMDC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| Single | 120=12nm | Standard | | | Blank for D Type | Blank for None/D Type | | 20=20W | 10=10kW | Blank for 300mW | R=25/250 PMDC Fiber | 3= 3mm Cable | 20=2.0m | SC/APC=SC/APC Connector |