

1053nm High Power PM BP Filter/Tap Hybrid

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 | Value |
|---------------------------------|----------------------------------|------|--|
| Center Wavelength | | nm | 1053 |
| Min. Pass Band Width @ 0.5dB | | nm | 1.0, 2.0, 4.0 |
| Excess Loss | | dB | ≤1.6 |
| Stop wavelength (ASE) | 1nm Bandwidth | nm | 1000~1051&1055~1100 |
| | 2nm Bandwidth | nm | 1000~1049&1057~1100 |
| | 4nm Bandwidth | nm | 1000~1047&1059~1100 |
| Stop Wavelength (ASE) Isolation | | dB | Standard: ≥25; High Isolation ≥45 |
| Tap Ratio | | % | 1+/-0.6%, 2+/-0.8%, 5+/-1.0%, 10%, 20%, 30%, 50% |
| Tap Position | F Type | - | Tap is before Bandpass Filter, Y Type (3-port), Both axis working |
| | S Type | - | Tap is before Bandpass Filter, Y Type (3-port), Only Slow axis working |
| | B Type | - | Tap is after Bandpass Filter, Y Type (3-port), Only slow axis working |
| | X Type | - | Tap is after Bandpass Filter, 4-port, Only Slow axis working (Blocked Wavelength Guide Out) |
| Optical Return Loss | | dB | ≥50 |
| Extinction Ratio | | dB | ≥18 |
| 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) |
| | Tap Port or 4 th Port | - | Same Fiber, Corr. SM Fiber or MM Fiber |
| Fiber Tensile Load | | N | 5 |
| Max. Optical Power (CW) | | W | 1, 2, 3, 5, 10, 15, 20,30,40,50,60 |
| Operating Temperature | | °C | 0~50 |
| Storage Temperature | | °C | -40~85 |
| Package | Stainless Steel Tube (SST) | mm | ∅5.5x ^L 40 (≤5W); ∅6.0x ^L 50 (5~10W) |
| Dimension | Metal Box | mm | ^L 120x ^W 12x ^H 10 (≤10W) |

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

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.

5. Suggest to use X type if blocked power is >1W.

6. Package size may be different for different optical power and configurations.

ORDERING INFORMATION (PN)

FPHB-1053-NN(C) NN (C) - C (C) - HP NN - (C) C C NN - CC/CCC

| Bandwidth | ASE Iso | Tap Ratio | Position | Tap Port Fiber | 4th Port Fiber | Optical Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|-----------|-----------|-----------|------------------|------------------|----------------------|---------------|---------------|---------------------|---------------|--------------|-------------------------|
| 10-1nm | I-High | 01=1% | F=F Type | Y=Same Fiber | Y=Same Fiber | 1-1W | M= Metal Box | 2=PM980Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| 20-2nm | Isolation | 05=5% | S=S Type | S=Corr. SM Fiber | S=Corr. SM Fiber | 5-5W | Blank for SST | E=PM1060L Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| 40-4nm | Blank for | 10=10% | X=X Type | S=50/125um Fiber | S=50/125um Fiber | 10-10W | or >10W | Q=20/130 PMDC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | Standard | 50=50% | Blank for B Type | | Blank for F/S/B Type | 20=20mW | | R=25/250 PMDC Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |

