

1550nm High Power PM Bandpass Filter ($\geq 7\text{nm BW}$)

FEATURES

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

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Research Labs

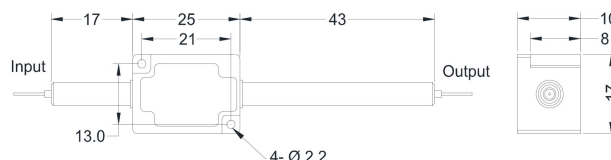


SPECIFICATIONS

| Parameters | | Unit | Standard | High ER Type |
|--|----------------------------|--------------------|---|--------------|
| Center Wavelength | | nm | 1550 | |
| Min. Pass Band Width @ 0.5dB | | nm | 7, 10, 15, 20 | |
| Insertion Loss over Pass Band Wavelength | | dB | ≤ 1.0 | ≤ 1.2 |
| Stop Band @ 25dB | 7nm Bandwidth | nm | 1520~1543 & 1557~1610 | |
| | 10nm Bandwidth | nm | 1520~1540 & 1560~1610 | |
| | 15nm Bandwidth | nm | 1500~1537 & 1563~1610 | |
| | 20nm Bandwidth | nm | 1500~1533 & 1567~1610 | |
| 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 10/125um PMDC Fiber (O) 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G) | |
| | ASE Guide Out (Y/X Type) | - | Same Fiber, Corr. SM Fiber or MM Fiber | |
| Fiber Tensile Load | | N | 5 | |
| Max. Optical Power (CW, ASE+Signal) | | W | 1, 2, 3, 5, 10, 15, 20 | |
| Max. ASE Optical Power (CW) | | W | 0.3, 0.5, 1, 2, 3, 4, 5, 10 | |
| Operating Temperature | | $^{\circ}\text{C}$ | 0~70 | |
| Storage Temperature | | $^{\circ}\text{C}$ | -40~85 | |
| Package Dimension | Stainless Steel Tube (SST) | mm | $(\varnothing)5.5 \times 35$ ($\leq 5\text{W}$); $(\varnothing)6.0 \times 48$ (5~10W) | |
| | Metal Box | mm | (L)90x(W)12x(H)10 (>10W); (L)120x(W)12x(H)10 ($\leq 10\text{W}$) | |

- 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 $\geq 1\text{W}$.
 - 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 H (FOR HIGH ASE POWER)



ORDERING INFORMATION (PN)

FPBP-1550-NN(C)(C) (C) (C) - HP NN -(NN) -(C) C C NN -CC/CCC

| Bandwidth | Type | ASE Type | Fwd ASE Fiber | Bwd ASE Fiber | Optical Power | ASE Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|-----------|-----------|-------------------|--------------------------|-------------------|---------------|-----------------|---------------|---------------------|---------------|--------------|-------------------------|
| 70=7nm | R=High ER | B=Backward | Y=Same Fiber | Y=Same Fiber | 1= 1W | 1= 1W | M=Metal Box | 2=PM1550Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| 100=10nm | Blank for | T=Two-way | S=Corr. SM Fiber | S=Corr. SM Fiber | 5= 5W | 5= 5W | H=H Box | 0=10/125 PMDC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| 150=15nm | Standard | Blank for Forward | N=None | A=105/125um Fiber | 10=10W | 10=10W | Blank for SST | T=12/130 PMDC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| 200=20nm | | Blank for D Type | Blank for None or D Type | | 20=20W | Blank for 300mW | | G=25/300 PMDC Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |

