

1545nm High Power PM BP/Partial Mirror Hybrid

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks



SPECIFICATIONS

| Parameters | Unit | Standard | High ER Type |
|--|----------------------------|--|---|
| Center Wavelength | nm | 1545 | |
| Min. Bandwidth@0.5dB | nm | 3.0, 4.0, 10, 12 | |
| Excess Loss | dB | ≤1.3 | ≤1.5 |
| Stop Band @25dB | 3nm Bandwidth | nm | 1510~1542 & 1548~1600 |
| | 4nm Bandwidth | | 1510~1540 & 1550~1600 |
| | 10nm Bandwidth | | 1510~1537 & 1553~1600 |
| | 12nm Bandwidth | | 1510~1532 & 1558~1600 |
| Reflective Ratio | % | 1±0.6, 2±0.8, 5±1, 10, 20, 30, 40, 50, 80, 90 | |
| Configuration | D Type | - 2-port | |
| | Y Type | - 3-port, (Blocked Wavelength Guide Out) | |
| Fiber Type at 3 rd Port (Only for Y Type) | - | Same Fiber, Corr. SM Fiber or 50/125um MM Fiber | |
| Optical Return Loss | dB | ≥45 | |
| Extinction Ratio | dB | ≥18 | ≥20 |
| Fiber Type | - | PM1550 Panda Fiber, 10/125um PMDC Fiber (O), 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R), 25/300um PMDC Fiber (G) | |
| Fiber Tensile Load | N | 5 | |
| Max. Optical Power (CW) | W | 1, 2, 3, 5, 10, 15, 20 | |
| Operating Temperature | °C | 0~50 | |
| Storage Temperature | °C | -40~85 | |
| Package Dimension | Stainless Steel Tube (SST) | mm | (Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W) |
| | Metal Box | mm | (L)90x(W)18x(H)10 (>10W); (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 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 3. High ER type can only work in slow axis at pass port; Suggest to use Y type if blocked optical power is >1W.
 4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 5. 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.

ORDERING INFORMATION (PN)

| Center Wavelength | Bandwidth | Ref. Ratio | Type | 3rd Port Fiber | Optical Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|-------------------|-----------|------------|-----------|------------------|---------------|---------------|---------------------|---------------|--------------|-------------------------|
| 1545-1545nm | 30=3nm | 01=1% | R=High ER | Y=Same Fiber | 1=1W | M=Metal Box | 2=PM1550Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| | 40=4nm | 05=5% | Blank for | S=Corr. SM Fiber | 5=5W | Blank for SST | 0=10/125 PMDC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | 100=10nm | 50=50% | Standard | 5=50/125um Fiber | 10=10W | or >10W | T=12/130 PMDC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | 120=12nm | 90=90% | | Blank for D Type | 20=20W | | G=25/300 PMDC Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |