

1070nm PM BP/Partial Mirror Hybrid 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 | 1070 | |
| Min. Bandwidth@0.5dB | nm | 4.0 | |
| Excess Loss | dB | ≤1.3 | ≤1.5 |
| Stop Wavelength (ASE) | nm | 1000~1065&1075~1100 | |
| Stop Wavelength (ASE) Isolation | dB | Standard | ≥25 |
| | dB | High Isolation | ≥45 |
| Reflective Ratio | % | 1±0.6, 2±0.8, 5±1, 10, 20, 30, 40, 50, 80, 90 | |
| BP Position | - | Forward | Bandpass is before the Mirror |
| | - | Backward | Bandpass is after the Mirror |
| Configuration | - | D: 2-port, Y: 3-port, (Forward/Backward ASE Guide Out) | |
| Optical Return Loss | dB | ≥45 | |
| 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 | 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 | mm | Stainless Steel Tube (SST) | ∅5.5x ^L 35 (≤5W); ∅6.0x ^L 50 (5~10W) |
| | mm | Metal Box | 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 at pass port; Suggest to use Y 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 optical power and configurations.

ORDERING INFORMATION (PN)

| Center Wavelength | Bandwidth | ASE Iso | Ref. Ratio | Type | BP Position | 3rd Port Fiber | Average Power | Peak Power | ASE Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|-------------------|-----------|-----------|------------|-----------|-------------|------------------|---------------|------------|-----------------|---------------|---------------------|---------------|--------------|-------------------------|
| 1070~1070nm | 40~4nm | I-High | 01=1% | R=High ER | B=Backward | Y=Same Fiber | 03=300mW | 01=100W | 1=1W | M=Metal Box | 2=PM980Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| | | Isolation | 05=5% | Blank for | Blank for | 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 |
| | | Blank for | 50=50% | Standard | Forward | 5=50/125um 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 | 90=90% | | | Blank for 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 |

