

1036nm 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 | 1036 | |
| Min. Bandwidth@0.5dB | | nm | 2.0, 12 | |
| Excess Loss | | dB | ≤1.3 | ≤1.5 |
| Stop wavelength (ASE) | 2nm Bandwidth | nm | 960~1031&1039~1120 | |
| | 12nm Bandwidth | nm | 960~1021&1051~1120 | |
| Stop Wavelength (ASE) Isolation | Standard | dB | ≥25 | |
| | High Isolation | dB | ≥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 | Stainless Steel Tube (SST) | mm | ∅5.5xL35 (≤5W); ∅6.0xL50 (5~10W) | |
| | Metal Box | mm | H: L90x ^W 12x ^H 10 (>10W); M: L120x ^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 |
|-------------------|-----------|-----------|------------|-----------|-------------|------------------|---------------|-------------------------|-----------|---------------|---------------------|---------------|--------------|-------------------------|
| 1036=1036nm | 20=2nm | 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 |
| | 120=12nm | 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/APC=SC/APC Connector |

