

1020-1150nm PBC/PBS 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
- Research Labs
- Laser Systems



SPECIFICATIONS

| Parameter | Unit | Value | |
|------------------------------------|----------------------------|--|---|
| Center Wavelength | nm | 1020, 1030, 1040, 1053 1064, 1070, 1080 | 1092, 1103 1120, 1150 |
| Bandwidth | nm | +/-20 | |
| Insertion Loss | (Typ.) | dB | 0.6 |
| | (Max.) | dB | 0.9 |
| Directivity | dB | ≥50 | |
| Optical Return Loss | dB | ≥45 | |
| Extinction Ratio (for FPBS) | (Typ.) | dB | 22 |
| | (Min.) | dB | 18 |
| Fiber Type of Port 1 & Port 2 | - | PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O) or 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R) | |
| Fiber Type of Port 3 | S Type | - | Corresponding SM Fiber |
| | P Type | - | Same Fiber to Port1&2, Slow axis align to Port 1 |
| | Q Type | - | Same Fiber to Port1&2, Slow axis is 45° to Port 1 |
| Direction of Incident Polarization | - | Slow Axis | |
| Fiber Tensile Load | N | 5 | |
| Max. Average Optical Power | W | 0.3, 0.5, 1, 2, 3, 5 10, 15, 20, 25, 30, 40, 50, 60. 80, 100 | |
| Max. Peak Power for Pulse | kW | 0.1, 1, 2, 3, 5, 10, 15, 20 | |
| Operating Temperature | °C | 0~50 | |
| Storage Temperature | °C | -40~85 | |
| Package Dimension | Stainless Steel Tube (SST) | mm | ∅5.5x ^L 35 (≤5W); ∅6.0x ^L 50 (5~10W) |
| | Metal Box | mm | ^L 90x ^W 12x ^H 10 (>10W); ^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.
 - 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 fiber type.

ORDERING INFORMATION (PN) FPBC=Polarization Beam Combiner; FPBS=Polarization Beam Splitter.

| FPBC FPBS | NNNN | - | C | H | NN | P | NN | - (C) | C | C | NN | - CC/CCC |
|--------------|-------------------|---|----------------|---|---------------|---|------------|---------------|---------------------|---------------|--------------|-------------------------|
| | Center Wavelength | | 3rd Port Fiber | | Average Power | | Peak Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
| | 1030-1030nm | | S=S Type | | 03-300mW | | 01-100W | M= Metal Box | 2-PM980Fiber | B= Bare fiber | 05-0.5m | N=Without Connector |
| | 1064-1064nm | | P=P Type | | 1- 1W | | 1- 1kW | Blank for SST | E-PM1060L Fiber | L= Loose Tube | 10-1.0m | FC/APC=FC/APC Connector |
| | 1092-1092nm | | Q=Q Type | | 5- 5W | | 5- 5kW | or >10W | Q=20/130 PMDC Fiber | 2= 2mm Cable | 15-1.5m | LC/PC=LC/PC Connector |
| | 1120-1120nm | | | | 10-10W | | 10-10kW | | R=25/250 PMDC Fiber | 3= 3mm Cable | 20-2.0m | SC/UPC=SC/UPC Connector |

