



Polarization Beam Combiner/Splitter (PBC/PBS)

Product Features

- High Extinction Ratio
- Low Insertion Loss
- Highly stability&Reliability

Product Applications

- EDFA and Raman Amplifier
- 40-Gbps,100-Gbps Transmission System
- Laboratory R&D

Specifications

| Parameter | Unit | Value | |
|---------------------------------|------|---|--------------------|
| Center Wavelength | nm | 1064 | 1310, 1480 or 1550 |
| Operating Wavelength Range | nm | ±20 | ±30 |
| Typ. Insertion Loss at 23°C | dB | ≤0.6 | ≤0.4 |
| Max. Insertion Loss at 23°C | dB | ≤0.8 | ≤0.6 |
| Min. Return loss (input/output) | dB | ≥50/50 | |
| Min. Extinction ratio at 23°C | dB | ≥22(for PBS) | |
| Min. Directivity | dB | 50 | |
| Max. Optical Power (CW) | mW | 500 | |
| Max. Tensile Load | N | 5 | |
| Fiber Type (Input-output) | - | Port 1& Port 2:PM Fiber Port 3:PM fiber or normal SM fiber | |
| package dimensions | mm | Φ5.5*55 | |
| Operating Temperature | °C | -5 to +70 | |
| Storage Temperature | °C | -40 to +85 | |

* Above specifications are for devices without connectors

* For devices with connectors, IL is 0.3dB (1310~1550nm) or 0.5dB (1064nm) higher, RL will be 5dB lower and ER will be 2dB lower

* The PM fiber and the connector key are aligned to the slow axis

Ordering Information

| PBS PBC | Wavelength | Pigtail Type | Fiber Type On Port 3 | Fiber Length | Connector |
|------------|---|---|--|-------------------------------------|---|
| 1x2 2x1 | 1310nm 1480nm 1550nm 1064nm Specify | 250um bare fiber 900um loose tube Specify | SMF-28e PM Panada ,slowAxis align 45 ° to port 1 PM Panada ,slowAxis align to port1 Specify | 0.5m 1m 1.5m 2m Specify | N=None FC/APC FC/UPC SC/APC SC/UPC LC/UPC Specify |