

## Polarization Beam Combiner/Splitter

### Features

Low insertion loss  
High extinction ratio  
High stability & Reliability

### Applications

Fiber Amplifier  
Fiber sensor  
Fiber Laser Marking  
Laboratory R&D

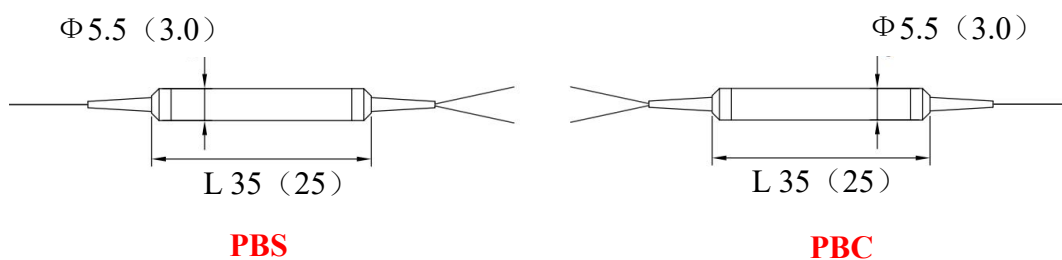
| Parameter             | Polarization Beam Combiner/Splitter                              |           |      | Unit              |
|-----------------------|------------------------------------------------------------------|-----------|------|-------------------|
| Center wavelength     | 780                                                              |           |      | nm                |
| Operating bandwidth   | ±20                                                              |           |      | nm                |
| Insertion loss        | PBC (2x1)                                                        | PBS (1x2) |      | Working axis type |
|                       | 0, 1, 2                                                          | 1         | 0&2  |                   |
|                       | ≤1.5                                                             | ≤1.5      | ≤4.5 | dB                |
| Extinction ratio      | ≥22(for PBS)                                                     |           |      | dB                |
| Return loss           | ≥50                                                              |           |      | dB                |
| Directivity           | ≥50                                                              |           |      | dB                |
| Handling power        | ≤300                                                             |           |      | mW                |
| Fiber type            | Port 1& 2: PM Panda Fiber,<br>Port 3: PM Panda Fiber or SM Fiber |           |      | /                 |
| Operating temperature | -5~+70                                                           |           |      | °C                |
| Storage temperature   | -40~+85                                                          |           |      | °C                |
| Dimensions            | Φ5.5×L35 or Φ3.0×L25                                             |           |      | mm                |

\* For PBS with working axis type 0, Insertion loss is for un-polarized light input;

\* For PBS with working axis type 2, Insertion loss is for polarized light input.

\* IL is 0.80dB (780~850) higher, RL is 5dB lower and ER is 3dB (780~850nm) lower for each connector added. The default connector key is aligned to slow axis.

### Mechanical Dimension



### Ordering Information

| specification        | GCPBC/PBS                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Port Number          | 1×2(For PBS) or 2×1(For PBC)                                                                                                      |
| Operating Wavelength | 780 nm etc                                                                                                                        |
| Fiber Code           | Specify                                                                                                                           |
| Pigtail Type         | 0=250μm;1=900μm;4=others                                                                                                          |
| Working axis Type    | 0=port3 SM fiber; 1=port3 PM fiber and slow axis aligned to port1,<br>2= port 3 PM fiber and slow axis align 45to port1, 4=others |
| Package              | 5.5× 35 etc                                                                                                                       |
| Connector            | FC/UPC,FC/APC etc                                                                                                                 |