

**Optizone 2x2 1064nm Polarization Beam Combiner/Splitter**

**Features**

Compact High Performance  
 High Extinction Ratio  
 Low Insertion Loss  
 High Directivity

**Applications**

Polarization Mode Dispersion Compens  
 Laser System  
 Coherent Telecommunication Systems  
 Fiber Optic Sensor

**Specifications**

| Parameter   | Unit | Values                       |
|---|------|------------------------------|
| Grade   | -    | Grade P                      |
| Center Wavelength   | nm   | 1064                         |
| Operating Wavelength Range  | nm   | ±20                          |
| Typ. Excess Loss (Port 3 to Port 1/2 at Slow Axis; Port 4 to Port 1/2 at Fast Axis) | dB   | 0.8                          |
| Max. Excess Loss (Port 3 to Port 1/2 at Slow Axis; Port 4 to Port 1/2 at Fast Axis) | dB   | 1                            |
| Min. Return Loss  | dB   | 50                           |
| Min. Extinction Ratio (for Splitter only)   | dB   | 20                           |
| Min. Directivity (Port 1 to Port 2, Port 3 to Port 4)                               | dB   | 50                           |
| Max. Optical Power (CW)   | mW   | 300                          |
| Max. Tensile Load   | N    | 5                            |
| Fiber Type  | -    | PM Panda Fiber on Port 1 & 2 |
| Operating Temperature   | °C   | -5 to +70                    |
| Storage Temperature   | °C   | -40 to +85                   |

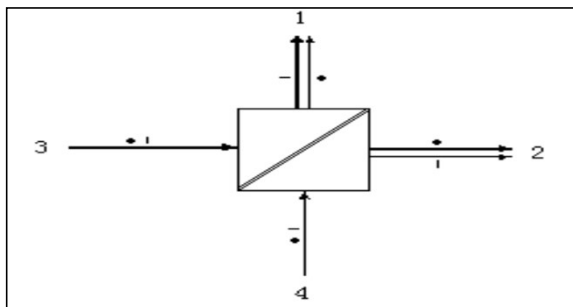
\*Above specifications are for device without connector.

\*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower and ER will be 2dB lower.

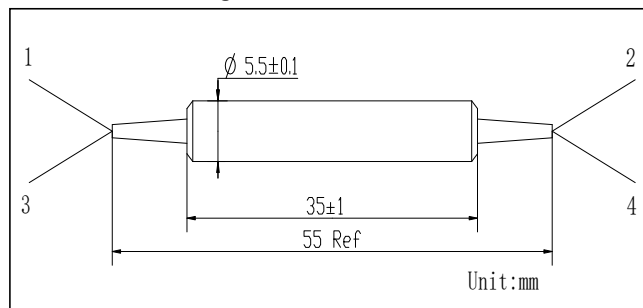
\*The PM fiber and the connector key are aligned to the slow axis.

\*The material must be RoHS compliant.

**Optical Path**



**Package Dimensions**



**Ordering Information**

**PBC-①-②-③-④④④-⑤⑤⑤-⑥-⑦-⑧-⑨**

**PBS-①-②-③-④④④-⑤⑤⑤-⑥-⑦-⑧-⑨**

- |   |   |   |                                 |
|---|---|---|---------------------------------|
| ①: Wavelength<br>1064 - 1064nm<br>S - Specify               | ④④④④: Connector Type Port 1, 2, 3 & 4<br>1A - FC/UPC<br>2A - FC/APC<br>3D - SC/UPC<br>4D - SC/APC                                 | ⑥: Fiber Type<br>30 - Port 1, 2&3,4: PM980<br>S - Specify   | ⑨: Package Type<br>01 - Ø5.5×35 |
| ②: Grade<br>P - Premium Grade<br>A - A Grade<br>S - Specify | ⑤⑤⑤⑤: Fiber Jacket on Port 1, 2, 3 & 4<br>B - Bare Fiber<br>C - 900um Red Loose Tube<br>F - 900um White Loose Tube<br>S - Specify | ⑦: Axis Alignment on Port 3&4<br>1 - HI 1060 Fiber<br>2 - PM Panda Fiber, Slow Axis align 45° to Port 1<br>3 - PM Panda Fiber, Slow Axis align to Port 1<br>S - Specify |                                 |
| ③: Port<br>2 - 2x2  |   | ⑧: Fiber Length<br>0.8 - 0.8m<br>S - Specify  |                                 |