## Polarization Beam Combiner/Splitter

### FEATURES
- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

### APPLICATIONS
- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Dispersion Compensation
- Light Routing

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Wavelength</td>
<td>nm</td>
<td>1310, 1480, 1550, 1590</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>nm</td>
<td>+/-40</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>(Typ.)</td>
<td>dB</td>
</tr>
<tr>
<td></td>
<td>(Max.)</td>
<td>dB</td>
</tr>
<tr>
<td>Directivity</td>
<td>dB</td>
<td>≥50</td>
</tr>
<tr>
<td>Optical Return Loss</td>
<td>dB</td>
<td>≥45</td>
</tr>
<tr>
<td>Extinction Ratio (for FPBS)</td>
<td>(Typ.)</td>
<td>dB</td>
</tr>
<tr>
<td></td>
<td>(Min.)</td>
<td>dB</td>
</tr>
<tr>
<td>Fiber Type of Port 1 &amp; Port 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S Type</td>
<td></td>
</tr>
<tr>
<td></td>
<td>P Type</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Q Type</td>
<td></td>
</tr>
<tr>
<td>Direction of Incident Polarization</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fiber Tensile Load</td>
<td>N</td>
<td>5</td>
</tr>
<tr>
<td>Max. Optical Power (CW)</td>
<td>mW</td>
<td>300</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>ºC</td>
<td>0~70</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>ºC</td>
<td>-40~85</td>
</tr>
<tr>
<td>Package Dimension</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stainless Steel Tube (SST)</td>
<td>mm</td>
<td>(Ø)5.5x35</td>
</tr>
<tr>
<td>Metal Box</td>
<td>mm</td>
<td>(L)120x(W)12x(H)10</td>
</tr>
</tbody>
</table>

**Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower, Connector key is aligned to slow axis.
3. 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.

### ORDERING INFORMATION (PN)

**FPBC**=Polarization Beam Combiner; **FPBS**=Polarization Beam Splitter.

- **FPBC**
  - NNNN
  - C
  - (C)
  - C
  - NN
  - CC/CCC

- **FPBS**
  - NNNN
  - C
  - (C)
  - C
  - NN
  - CC/CCC

- **Center Wavelength**
  - 1310~1310nm
  - S or S type
  - Metal Box
  - PM1310/1550 Fiber
  - 0.5~0.5m
  - FC/APC

- **1480~1480 nm**
  - P or P type
  - Black for SST
  - 10/125 PMDC Fiber
  - 10~10m
  - LC/PC

- **1550~1550 nm**
  - Q or Q type
  - 0.5~0.5m
  - 2mm cable
  - 15~15m
  - SC/UPC

- **1590~1590 nm**
  - G or G type
  - 25/300 PMDC Fiber
  - 20~20m
  - SC/UPC