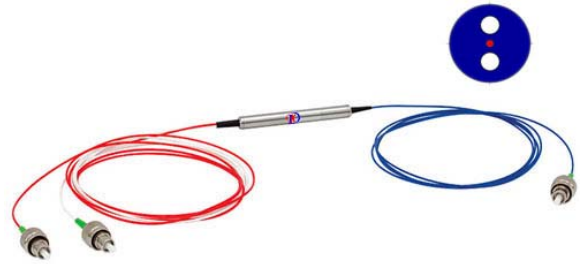
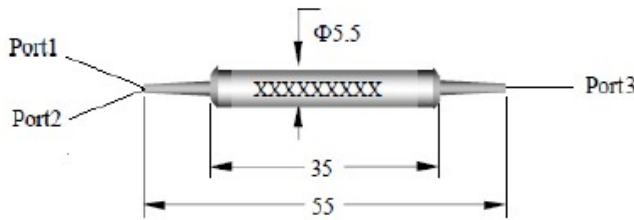




Polarization Beam Combiner/Splitter (IPBC/S) 980nm

The Polarization Beam Combiner/Splitter is a compact high performance lightwave component that combines two orthogonal polarization signals into one output fiber. The most common application is to combine the light of two pump lasers into a single fiber to double the pump power to an Erbium-Doped Fiber Amplifier (EDFA) or a Raman Amplifier. The typical configuration uses two PM fibers for the input and the SM fiber for the output. The device can also be used as a beam splitter.

The products are Telcordia qualification tested.



Features

- ◆ Low Insertion Loss
- ◆ High Extinction Ratio
- ◆ Compact In-Line Package
- ◆ High Stability and Reliability

Applications

- ◆ Fiber Laser
- ◆ Fiber Sensor
- ◆ EDFA & Raman Amplifier
- ◆ PMD Compensator

Performance Specifications

| Parameter | Value | |
|------------------------------|---------------------------------|-------|
| | P | A |
| Grade | P | A |
| Operating wavelength(nm) | 980 | |
| Operating bandwidth(nm) | +/-30 | +/-30 |
| Typical insertion loss(dB) | 0.6 | 0.7 |
| Insertion loss(dB) | ≤0.8 | ≤0.9 |
| Return loss(dB) | >50 | >50 |
| Typical Extinction Ratio(dB) | 22 | 20 |
| Handling power(mW) | < 500 | |
| Tensile Load(N) | < 5 | |
| Fiber Type | See ordering information | |
| Operating temperature(°C) | -5 ~ +70 | |
| Storing temperature(°C) | -40 ~ +85 | |
| Package dimension(mm) | Ø5.5 x 35 or customer specified | |

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB 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 and fast axis is blocked.

Order information

PBC/PBS-①-②②-③-④-⑤⑤-⑥⑥-⑦⑦

| ① | ②② | ③ | ④ | ⑤⑤ | ⑥⑥ | ⑦⑦ |
|------------|-----------------------|---|--|------------------------------------|---------------------------------|--|
| Grade | Operating Wavelength | Fiber type (Port1& 2) | Fiber type (Port 3) | Fiber Di- ameter | Fiber Length | Connector |
| P:P A:A | 98:980nm XX:Others | 1:SMF-28 250um bare fiber 2:400um Panda PM fiber | 1:SMF-28 250um bare fiber 2:400um Panda PM fiber, slow axis 45° 3:400um Panda PM fiber, slow axis aligned with port 1 4:400um Panda PM fiber, slow axis aligned with port 2 | 25:250um 90:900um XX: Others | 08:0.8m 10:1.0m XX:Others | 00:None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC XX: Others |