

**Optizone Polarization Beam Combiner/Splitter (High ER)**

**Features**

- Compact High Performance
- High Extinction Ratio
- Low Insertion Loss
- High Directivity

**Applications**

- Polarization Mode Dispersion Compensator
- EDFA & Raman Amplifier
- Coherent Telecommunication Systems
- Fiber Optic Sensor

**Specifications**

Parameter	Unit	Values
Center Wavelength	nm	1310,1480 or 1550
Operating Wavelength Range	nm	±40
Typ. Insertion loss	dB	0.4
Max. Insertion loss	dB	0.6
Min. Return Loss	dB	50
Grade of Extinction Ratio	-	26, 28, 30, or Specify
Min.PDL 23°C (only for SMF-28e Fiber on all ports)	dB	20
Min. Directivity	dB	50
Max. Optical Power (CW)	mW	500
Max. Tensile Load	N	5
Fiber Type	-	PM Panda Fiber on Port 1 & 2 or Specify
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

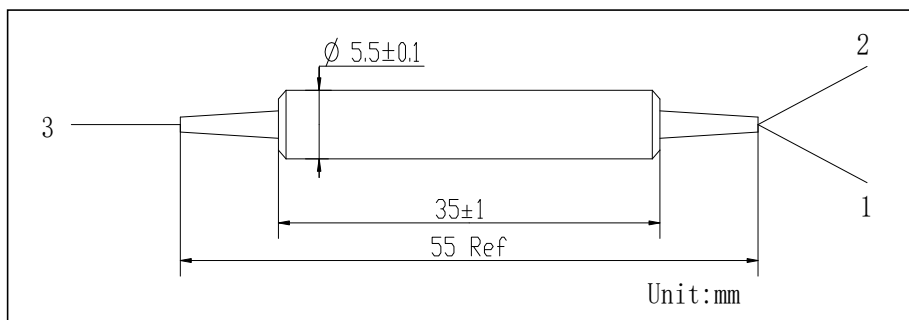
\*Above specifications are for device without connector.

\*For devices with connectors, IL will be 0.3dB 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.

\*The material must be RoHS compliant.

**Package Dimensions**



**Ordering Information**

**PBC-HER-①①①①-②-③-④④④-⑤⑤⑤-⑥-⑦-⑧-⑨**

**PBS-HER-①①①①-②-③-④④④-⑤⑤⑤-⑥-⑦-⑧-⑨**

- |                              |                                      |   |                 |
|------------------------------|--------------------------------------|---|-----------------|
| ①: Wavelength                | ④④④: Connector Type on Port 1, 2 & 3 | ⑥: Fiber Type                               | ⑧: Fiber Length |
| 1310 - 1310nm                | 1 - FC/UPC                           | 05B - Port 1, 2&3: PM1300                   | 0.8 - 0.8m      |
| 1480 - 1480nm                | 2 - FC/APC                           | 07B - Port 1, 2&3: PM1550                   | S - Specify     |
| 1550 - 1550nm                | 3 - SC/UPC                           | 13B - Port 1&2: PM1300, Port 3: SMF-28e     |                 |
| S - Specify                  | 4 - SC/APC                           | 15B - Port 1&2: PM1550, Port 3: SMF-28e     |                 |
|                              | N - None                             | 19 - Port 1, 2&3: SMF-28e                   | ⑨: Package Type |
|                              | S - Specify                          | S - Specify                                 | 01 - Ø5.5×35    |
|                              |                                      |   | S - Specify     |
| ②: Grade of Extinction Ratio | ⑤⑤⑤: Fiber Jacket on Port 1, 2 & 3   | ⑦: Axis Alignment on Port 3                 |                 |
| 26 - 26dB                    | B - Bare Fiber                       | 1 - SM Fiber, Align to Port 1 & 2 Slow Axis |                 |
| 28 - 28dB                    | C - 900um Red Loose Tube             | 2 - PM Fiber, Slow Axis Align 45° to Port 1 |                 |
| 30 - 30dB                    | F - 900um White Loose Tube           | 3 - PM Fiber, Slow Axis Align to Port 1     |                 |
| S - Specify                  | S - Specify                          | 4 - All Ports are SM Fiber                  |                 |
|                              |                                      | S - Specify                                 |                 |
| ③: Port                      |                                      |   |                 |
| 1 - 1x2                      |                                      |   |                 |