Advanced Fiber Resources (HK), Ltd.

# 1064 nm Polarization Beam Combiner/Splitter (PBC/PBS Series)

Rev 11

The 1064 nm 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 one single fiber to double the pump power. The typical configuration uses two PM fibers as input and SM fiber as output. The device can also be used as a beam splitter.

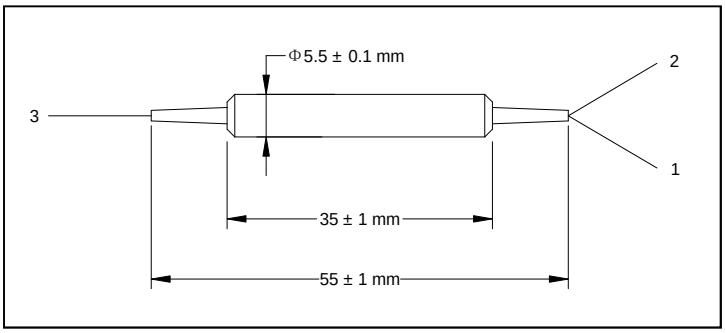
## Specifications

| Parameter | Unit | Grade P | Grade A |
|---|---|---|---|
| Center Wavelength (λc) | nm | 1064 | |
| Operating Wavelength Range | nm | λc ± 20 | |
| Typ. Insertion Loss | dB | 0.6 | 0.7 |
| Max. Insertion loss | dB | 0.8 | 0.9 |
| Min. Extinction Ratio (for splitter only) | dB | 22 | 20 |
| Min. Return Loss | dB | 50 | |
| Min. Directivity | dB | 50 | |
| Max. Optical Power (Continuous Wave) | mW | 500 | |
| Fiber Type | | PM 980 Panda fiber for Ports 1 & 2<br>HI 1060 or PM Panda fiber for Port 3 | |
| Max. Tensile Load | N | 5 | |
| Operating Temperature | ℃ | -5 to +70 | |
| Storage Temperature | ℃ | -40 to +85 | |

*IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added.

*Connector key is aligned to slow axis.

## Package Dimensions




## Ordering Information

**PBS**-①①-②-③-④-⑤-⑥ **PBC**-①①-②-③-④-⑤-⑥

①①: Wavelength
06 - 1064 nm
SS - Specify

②: Grade
P - Premium
A - A grade

③: Connector Type
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Spe cify

④: Fiber Jacket
B - 250 μm Panda fiber
L - 900 μm loose tube
S - Specify

⑤: Fiber Type for Port 3
1 - HI 1060 fiber
2 - Slow axis aligned 45°to Port 1
3 - Slow axis aligned to Port 1
S - Specify

⑥: Fiber Length
Q - 0.75 m
S - Specify

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