



1064nm Polarization Beam Combiner/Splitter

(PBC/PBS Series)

The 1064nm 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.

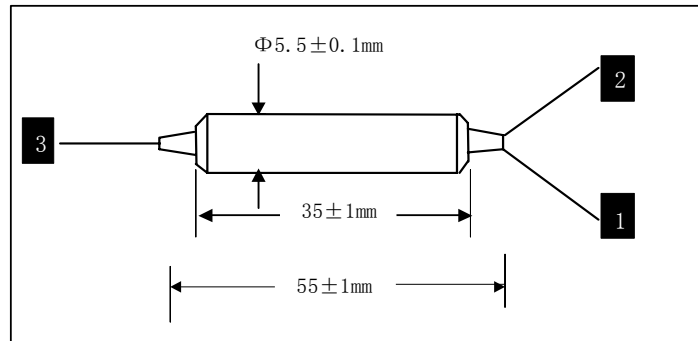
Specifications

Parameter	Unit	Grade P	Grade A
Center Wavelength	nm		1064
Operating Wavelength Range	nm		± 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	mW		500
Fiber Type		PM 980 Panda Fiber on Port 1 and 2, HI 1060 or PM Panda Fiber on Port3	
Max. Tensile Load	N		5
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.

Package Dimensions



Ordering Information

PBC-①①-②-③-④-⑤-⑥

PBS-①①-②-③-④-⑤-⑥

①①: Wavelength

06 - 1064nm

SS - Specify

③: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

④: Fiber Type

B- 250um Panda Fiber

D- 400um Panda Fiber

L- 900um loose tube Panda Fiber

S - Specify

⑥: Fiber Length

Q - 0.75m

S - Specify

②: Grade

P - Premium

A - A Grade

⑤: Fiber Type on Port 3

1 - HI 1060 Fiber

2 - Slow axis align 45° to port 1

3 - Slow axis align to port 1

S - Specify

Remark: The PM fiber and the connector key are aligned to the slow axis

If port 3 is HI1060 fiber, 250um bare fiber will be used when 250um or 400um Panda Fiber is selected on port 1 and 2