PRODUCT INFORMATION SHEET

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.
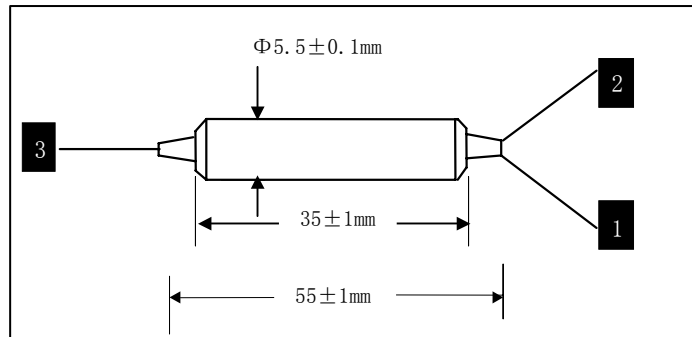
➤ Specifications

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	℃	-5 to + 70	
Storage Temperature	℃	-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

Φ5.5±0.1mm

35±1mm

55±1mm

➤ Ordering Information

PBC-①-②-③-④-⑤-⑥
PBS-①-②-③-④-⑤-⑥

① Wavelength	② Grade	③ Connector Type	④ Fiber Type	⑤ Fiber Type for Port 3
06 - 1064nm	P - Premium	N - None	B- 250um Panda Fiber	1 - HI 1060 fiber
SS – Specify	A - A Grade	S - Specify	D- 400um Panda Fiber	2 - Slow axis align 45° to output 1
			L- 900um loose tube Panda Fiber	3 - Slow axis align to output 1
⑥ Fiber Length			S – Specify	S – Specify
Q - 0.75 m				
S - Specify				