

Polarization Beam Combiner/Splitter

(PBC/PBS Series)

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.

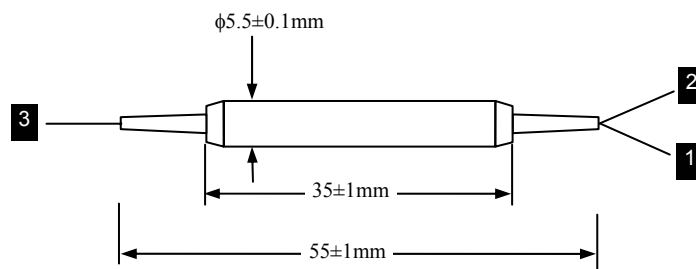


Specifications

Parameter	Unit	Grade P	Grade A
Center Wavelength	nm	1310, 1480 or 1550	
Operating Wavelength Range	nm	± 40	
Typ. Insertion loss	dB	0.4	0.5
Max. Insertion loss	dB	0.6	0.7
Min. Extinction Ratio (for splitter only)	dB	22	20
Min. Return Loss	dB	50	
Min. Directivity	dB	50	
Max. Optical Power (Continuous Wave)	W	500	
Fiber Type		PM Panda fiber on Ports 1 and 2, SMF-28 or PM Panda fiber on Port 3	
Max. Tensile Load	N	5	
Operating Temperature	°C	-5 to + 70	
Storage Temperature	°C	-40 to +85	

1. Above specifications are for device without connector.
2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

Dimension



Ordering Information

PBC-①①-②-③-④-⑤-⑥

PBS-①①-②-③-④-⑤-⑥

①①: Wavelength	③: Connector Type	④: Fiber Type	⑤: Fiber Type on Port 3
31 - 1310nm	1 - FC/UPC	B- 250um Panda fiber	1 - SMF-28 (standard)
48 - 1480nm	2 - FC/APC	D- 400um Panda fiber	2 - Slow axis align 45° to Port 1
55 - 1550nm	3 - SC/UPC	L- 900um loose tube	3 - Slow axis align to Port 1
SS - Specify	4 - SC/APC	S - Specify	S - Specify
	N - None		
②: Grade	S - Specify		⑥: Fiber Length
P - Premium			Q - 0.75m
A - A Grade			S - Specify

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

If Port 3 is SMF-28 fiber, 250um bare fiber will be used when 250um or 400um Panda fiber is selected for Ports 1 and 2

Contact Information

For more information about BATi's leadership in variable optical attenuation technology and other optical networking modules and components, visit our website at www.bostonati.com.

To obtain additional technical information or to place an order for this product, please contact us at:

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