



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.



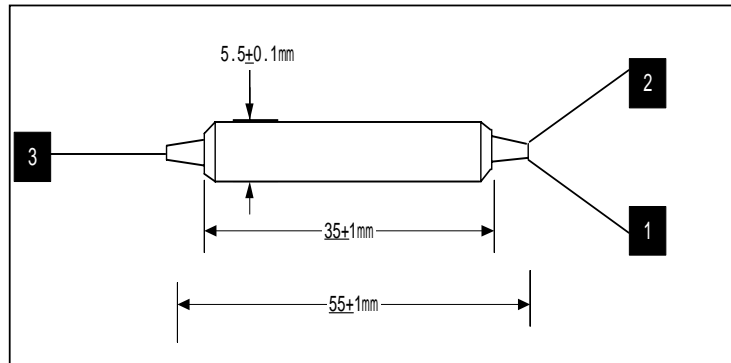
Specifications

Parameter	Unit	Grade P	Grade A
Center Wavelength	nm	1310, 1480 or 1550	
Operating Wavelength Range	nm	± 40	
Typical Insertion loss	dB	0.4	0.5
Maximum Insertion loss	dB	0.6	0.7
*Min. Extinction Ratio (for splitter only)	dB	20	18
Return loss	dB	50	
Max. Optical Power	mW	500	
Fiber		PM on port 1 and 2, SM or PM on port3	
Max. Tensile Load	N	5	
Operating Temperature		-5 to + 70	
Storage Temperature		-40 to +85	

Above specification are for device without connector.

*For devices with connectors, insertion loss will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

Package Dimensions



Ordering Information

PBC- - - - - -
PBS- - - - - -

Wavelength	Connector Type	Fiber Type	Fiber Length
31 - 1310nm	1- FC/UPC	B- 250 um panda fiber	Q - 0.75m
48 - 1480nm	2 -FC/APC	D- 400um panda fiber	S - Specify
55 - 1550nm	3 - SC/UPC	L- 900um loose tube panda fiber	
SS - Specify	4 - SC/APC	S - Specify	
	S - Specify		
Grade	N - None	Fiber Type for port 3	
P - Premium		1 - SMF-28 (Standard)	
A - A Grade		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 SMF-28 fiber, 250um bare fiber will be used when 250um or 400um panda fiber is selected for port 1 and 2