Polarization Beam Combiner/Splitter

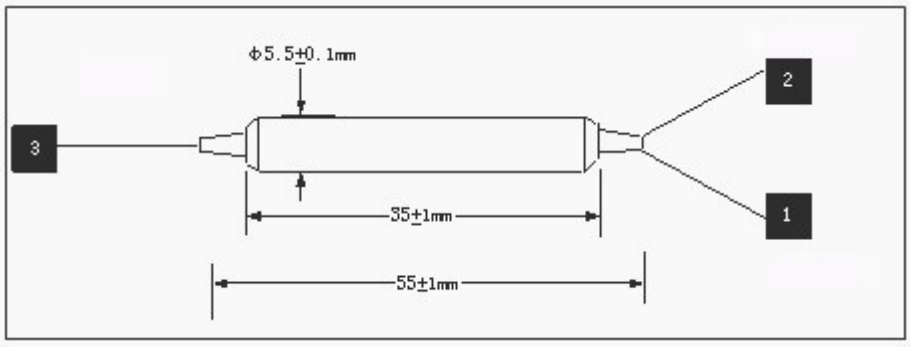
The Polarization Beam Combiner/Splitter is a compact high performance lightwave component that combines two orthogonal polarization signals into one output fiber. The most common application is to combine the light of two pump lasers into a single fiber to double the pump power to an Erbium-Doped Fiber 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	Value	
Center Wavelength	1310, 1480 or 1550 nm	980nm
Operating Wavelength Range	± 40nm	± 10nm
Typical Insertion loss	0.4dB	0.8dB
Maximum Insertion loss	0.6dB	1.0dB
Min. Extinction Ratio (for splitter only)	20dB	
Return loss	50dB	
Max. Optical Power	500mW	
Fiber	PM on port 1 and 2, SM or PM on port3	980nm PM on port 1 & 2, HI 1060 or 980nm on port3
Max. Tensile Load	5N	
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.

Imagine



Ordering Information

PBC PBS	Wavelength	Fiber Type at Port 1&2	Fiber Type at Port 3	Fiber Length	Connector
	13=1310nm 14=1480nm 15=1550nm 98=980nm	B- 250 um panda fiber D- 400um panda fiber L- 900um loose tube panda fiber	1 - SMF-28 (Standard)(HI1060 for 980 PBC/PBS) 2 - Slow axis align 45° to port 1 3 - Slow axis align to port 1 S - Specify	1=1.0m 2=2.0m	NE=None FA=FC/APC FC=FC/PC SA=SC/APC SC=SC/PC ST=ST/PC LA=LC/APC LC=LC/PC XX=others

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