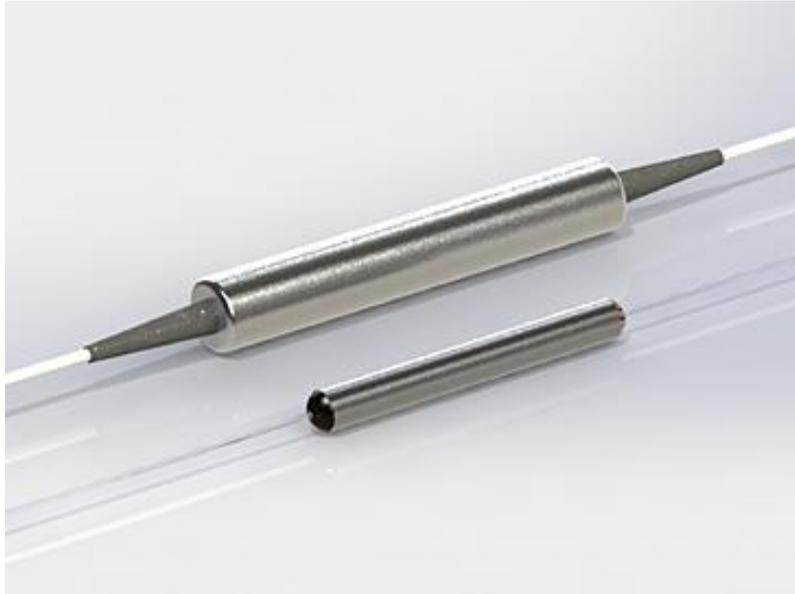


1310nm Polarization Beam Combiner



● Product Description

Polarization beam splitters (PBS/PBC) are used to couple two orthogonal polarized light beams into one optical fiber or to couple a single output containing orthogonal linear polarized light beams into two optical fiber outputs. They can also be used in reverse to couple two orthogonal polarized light beams input from polarization-maintaining fiber branches into a single-mode output fiber. They can be used to combine the power of pump lasers and increase the power of fiber lasers. An important use of



these two devices is to increase the capacity of optical systems in polarization multiplexing and demultiplexing technologies.

- **Product features**

Compact size、 Low insertion loss performance、 High handling power performance、 High reliability and stability

- **Part Number**

MP-PBC-P-13-1-2-2-2-1

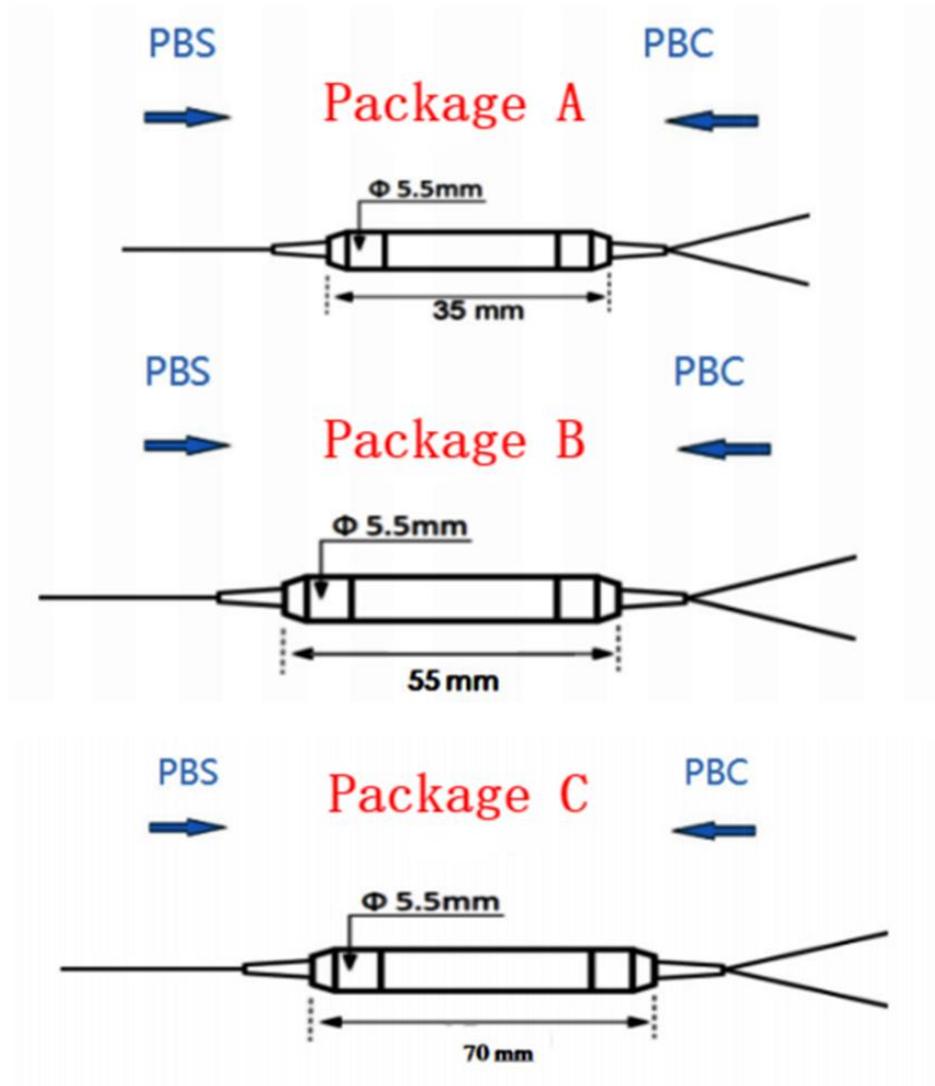
- **Application area**

Fiber laser、 Fiber sensor、 Communication system field、 Applied in test equipment、 Used in polarization multiplexing and demultiplexing、 High power EDFA

- **Core parameters**

Center Wavelength	Operating Bandwidth	Connector
1310nm	±40nm	None

- **Dimension Drawing**



- **General Parameters**

Technical Parameters

Category	Parameter	Unit	Performance Index	
Optical Performance	Grade	/	P	A
	Center Wavelength	nm	1310,1480 or 1550	
	Operating Bandwidth	nm	±40	
	Typical Insertion Loss at Room Temperature	dB	0.4	0.5
	Maximum Insertion Loss at Room Temperature	dB	0.6	0.7
	Typical Minimum Extinction Ratio at Room Temperature	dB	22	20
	Maximum Polarization Dependent Loss at Room Temperature	dB	0.20	

	Minimum Polarization Crosstalk Loss (Port1 to Port3)		dB	50
	Minimum Directivity		dB	50
	Minimum Return Loss		dB	50
	Maximum Power Handling		mw	500
	Maximum Tensile Strength (CW)		N	5
Mechanical Structure	Package Size		mm	ϕ5.5×35 (customizable)
	Pigtail Length		m	≥1(customizable)
	Pigtail Type (Port1 & Port2)	Port1&Port2	/	PM Fiber (SM13/14/15-PS-U25A)
		Port3	/	SM Fiber(SM) or PM Fiber (PMPandaFiber) (customizable)
Environmental Indicators	Operating Temperature		°C	-5~+70



	Storage Temperature	°C	-40~+85
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Notes:

- ① For products with connectors, the insertion loss is 0.30dB more, the return loss is 5dB less, and the extinction ratio is 2dB lower.
- ② The default setting for polarization-maintaining fiber is slow axis to axis.

Ordering info

XXX-X-XX-X-X-X-X-XX

PN #:XXX	PBC=Polarization Combiner; PBS=Polarization Beam Splitter
Grade:X	P = P-grade; A = A-grade
Wavelength:XX	13=1310nm;14=1480nm;15=1550nm;XX=Customizable
Pigtail Model for Port 1&2:X	1=PM Fiber; 2=SM Fiber; 3=Customizable
Pigtail Model for Port 3:X	1=SM Fiber; 2=Slow Axis Alignment with Port 1; 3=Slow Axis 45° Alignment with Port 1
Pigtail type:X	1=250µm Bare Fiber; 2=900µm Loose Tube; 3=2mm Kevlar; 4= 3mm Kevlar; 5 = Customizable
Pigtail Length:X	1=0.5m;2=1m;3=Customizable



Package Size:X	1 = Package A; 2 = Package B; 3 = Package C; 4 = Customizable
Connector Type:XX	1 = None; 2 = FC/PC; 3 = FC/APC; 4 = SC/FC; 5 = Customizable