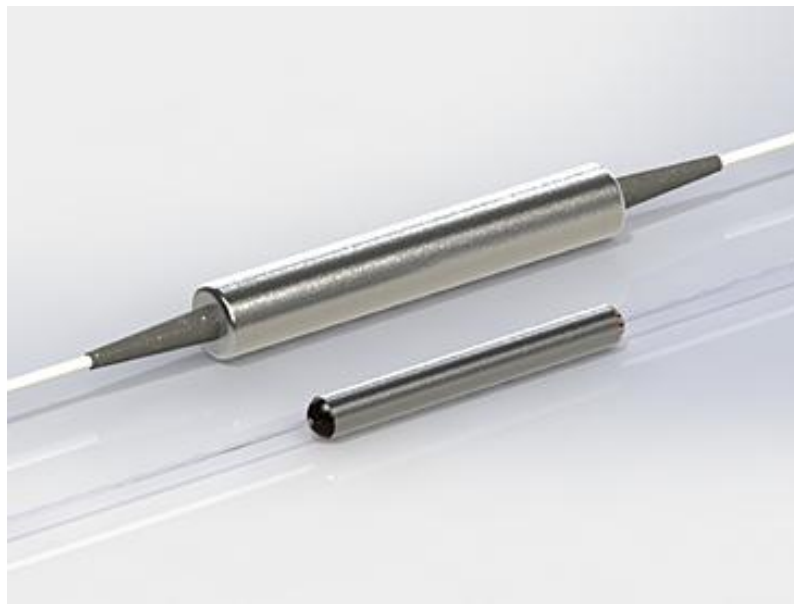


1550nm Polarization Beam Splitter (Port 3 as Single Mode Fiber)



- **Product Description**

The Polarization Beam Splitter (PBS/PBC) is used to couple two orthogonal polarized light beams into a single optical fiber, or to couple the orthogonal polarized light from a single output into two separate optical fibers. It can also be used in reverse to couple two orthogonal polarized light beams from a polarization-maintaining fiber into a single-mode output fiber. These devices are commonly used for power combining in pump lasers, improving the power of fiber lasers. An important application of these devices is in



polarization multiplexing and demultiplexing technology, which enhances the capacity of optical systems.

● Product features

Compact appearance、 Low insertion loss performance、 High power handling performance、 Highly reliable stable characteristics、 Through GR-1209-CORE、 Through GR-1221-CORE、 ROHS

● Part Number

MP-PBS-P-15-1-1-2-2-1-2

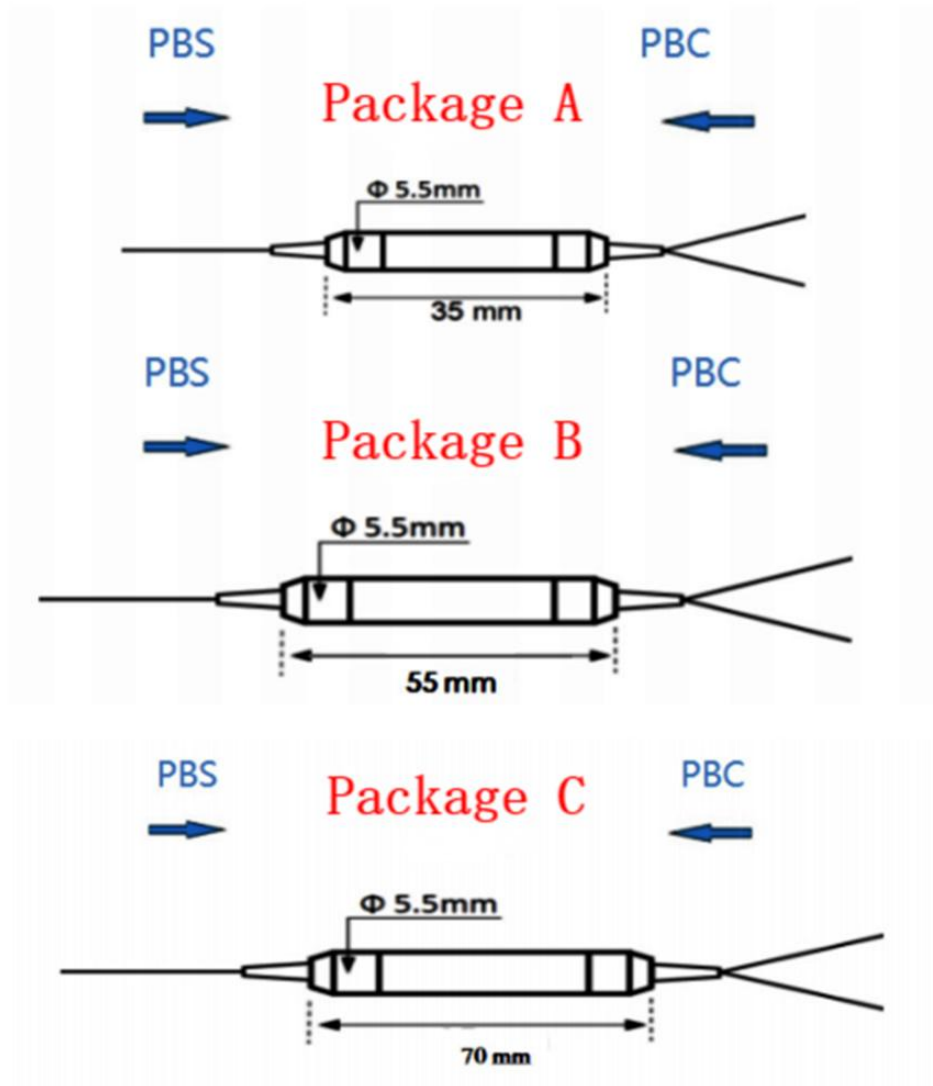
● Application area

Fiber laser、 Fiber sensor、 Communication system field、 Used in testing equipment、 For polarization multiplexing and demultiplexing devices、 High-power EDFA

● Core parameters

Center Wavelength	Operating Bandwidth	Connector
1550nm	±40nm	FC/PC

● **Dimension Drawing**



● **General Parameters**

Technical Parameters

Category	Parameter	Unit	Performance Index	
Optical	Grade	/	P	A



Performance	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	∅5.5×35 (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

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