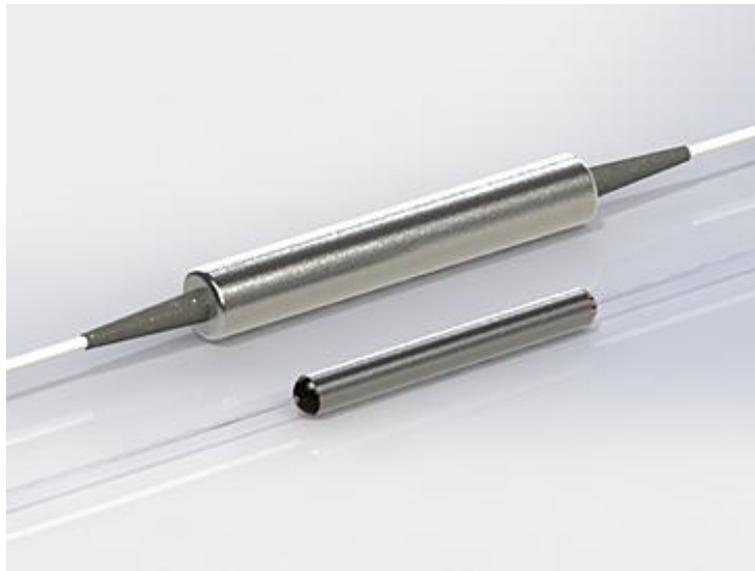


980nm 1x2 Polarization Beam Splitter/ Combiner PBS/PBC



● 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 optical fiber branches into a single-mode output optical 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

Low insertion loss; Single mode output; High polarization beam splitting efficiency; Wide band operation

● Part Number

MP-PBC-980-P-1-NNN-BBB-03A-3-1-01

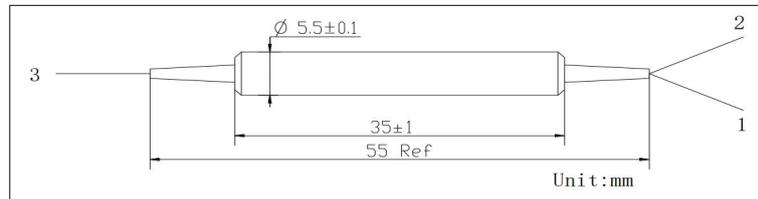
● Application area

Polarization state analysis | Optical coherent imaging | Laser system monitoring | Testing instruments | Laboratory research

● Core parameters

Center Wavelength	Package Type
980nm	Φ5.5x35 mm

● Dimension Drawing



● General Parameters

Parameter	Unit	Numeric	
Grade	-	Grade P	Grade A
Central wavelength	nm	980	
Working wavelength range	nm	±20	
Typ. Insertion loss	dB	0.65	0.75
Max. Insertion Loss	dB	0.8	0.9
Min. Return Loss	dB	50	
Min. Extinction Ratio (for beam splitters only)	dB	twenty two	20
Min. Directivity	dB	50	
Max. Optical Power (CW)	mW	500(Total)	
Max. Tension	N	5	
Fiber Type	-	PM Panda Fiber on Port 1 & 2	
Operating temperature	°C	-5 to +70	
Storage temperature	°C	-40 to +85	



The above specifications apply to devices without connectors.

*For devices with connectors, IL will increase by 0.3dB, RL will decrease by 5dB,
and ER will decrease by 2dB.

*PM fiber and connector keys are aligned with the slow axis.

*The material must be RoHS compliant.

Model Information

MP-PBC-①-②-③-④④④-⑤⑤⑤-⑥-⑦-⑧-⑨

MP-PBS-①-②-③-④④④-⑤⑤⑤-⑥-⑦-⑧-⑨

①: Wavelength

980 - 980nm

S - Specify

②: Grade

P - Premium

A - A Grade

③: Port

1 - 1x2

④④④: Connector Type on Port 1, 2 &3

1A - FC/UPC

2A - FC/APC



3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑤⑤⑤: Fiber Jacket on Port 1, 2 &3

B - Bare Fiber

C - 900um Red Loose Tube

F - 900um White Loose Tube

SS - Specify

⑥: Fiber Type

03A - Port 1, 2&3: PM980

11A - Port 1&2: PM980, Port 3: HI 1060 Fiber

S - Specify

⑦: Axis Alignment on Port 3

2 - PM Panda Fiber, Slow Axis align 45° to Port 1

3 - PM Panda Fiber, Slow Axis align to Port 1

4 - All ports are HI1060

5-PM Fiber, Fast Axis Align to Port 1

6 - PM Fiber, Slow Axis Align to Port 1 and Fast Axis Align to Port 2

S - Specify



⑧: **Fiber Length**

1 - 1m

S - Specify

⑨: **Package Type**

01 - Ø5.5×35