

Polarization Maintaining Components



Key Features

- Low Insertion Loss
- High Extinction Ratio
- Compact In-Line Package
- High Stability and Reliability

1940nm 2x2 Polarization Beam Combiner/Splitter

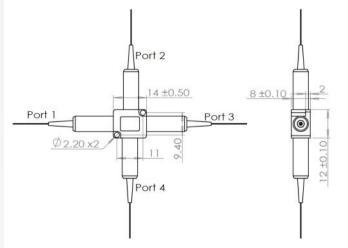
The Polarization Beam Combiner/Splitter can be used either as a polarization beam combiner to combine light beams from two PM input fibers into a single output fiber, or as a polarization beam splitter to split light from an input fiber into two output fibers of orthogonal polarization states.

DK Photonics offers a large selection of PBS/C. These devices can handle powers rang from 300mW to 100W or other on request and have center operating wavelengths ranging from 780 nm to 2050nm.

If you do not see a standard Polarization Beam Combiner/Splitter that meets your needs, we welcome the opportunity to review your desired specification and quote a custom Polarization Beam Combiner/Splitter. Requests for custom fiber pigtails, different wavelengths and handling power of operation or other specific needs will be readily addressed.



Package Dimension



* Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.

Applications

- Polarization MUX/Demux
- High power fiber laser
- Optic sensor system
- Coherent Telecommunication Systems
- Polarization Mode Dispersion Compensator

For more Info

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1940nm 2x2 Polarization Beam Combiner/Splitter

Performance Specifications

Parameter			Unit	Value		
Grade			-	Р		
Operating wavelength			nm	1940		
Operating bandwidth			nm	±20		
Incortion los	Тур.		dB	0.60		
Insertion los	5	Max.	dB	1.00		
Min. Extinction Ratio			dB	20		
Return loss			dB	>50		
Directivity			dB	>50		
Max. Power Handling			W	0.5, 1, 2, 3, 5, 10, 20		
Tensile Load			Ν	< 5		
Fiber Type	Port 3&Port 4		-	PM1550 or PM1950 (same to port 1&2)		
	Port 1&Port2 (Same Fiber or Corresponding SM Fiber)		-	SMF-28e, or SM1950, or PM1950		
Operating temperature			°C	-5 ~ +70		
Storing temperature			°C	-40 ~ +85		
Package dimension			mm	14x12x8		

1. above specifications are for device without connector. All parameters are tested at room temperature.

2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower. The default connectorkey is aligned to slow axis. Power transmits through the connector less than 2W.

3. For >20W high power applications, we will use heat sink package, contact DK Photonics for details.

4. Since the light is bidirectionally reversible, PBC can also be used as PBS.

Order information P/N: PBC/PBS-2x2-(1)-(2)-(3)-(4)-(5)-(6)-(7)

When you inquire, please provide the correct P/N number according to our ordering information and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250µm bare fiber pigtail.

1	2	3	4	5	6	\bigcirc
Grade	Operating Wavelength	Power Handling (Total)	Fiber type (Port1&2)	Pigtails Diameter	Fiber Length	Connector
P:P	1940:1940nm XX: Others	L:<0.5W 1:1W 2:2W 5:5W 10:10W	SM:SM fiber PM1:PM fiber-0° PM2:PM fiber-45°	25:250μm 90:900μm XX: Others	08:0.8m 10:1.0m XX: Others	00: None FP: FC/PC FA: FC/APC XX: Others

Part Number Example: PBS-2X2-P-1940-L-PM1-25-10-00

Description: 1940nm 2X2 Polarization Beam Splitter, 0.5W power, P grade, PM1950 fiber for port 1 & 2, 0 degree alignment output, with bare fiber, 1.0m fiber length, and no connectors at all ports.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.

2X2 PBS More Details Regarding Routing path:

