



## 2x2 Fiber Polarization Splitter / Combiner

I&Optics' 2x2 fiber polarization splitter / combiner can split two input lights into two pairs of orthogonal linear polarization portions and recombine the four portions into two pairs of mixed output lights. It features very low insertion loss and very high extinction ratio due to our unique technology. It can be used in lasers, telecom, amplifiers, sensors, testing systems and R&D.

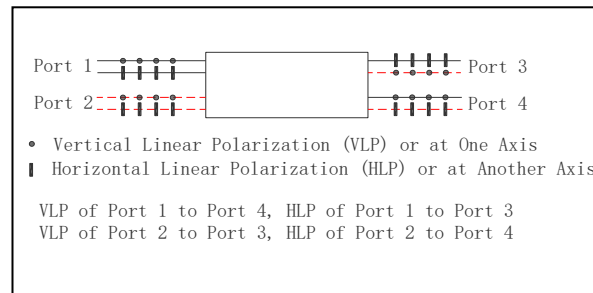
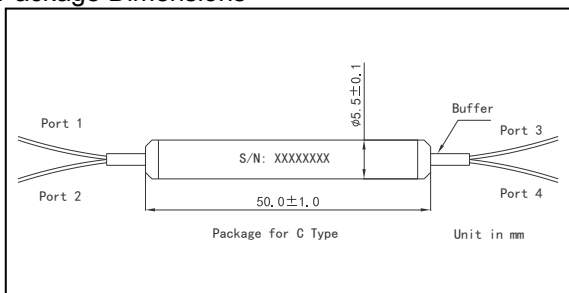
### Specification

Parameter	Test Condition	Unit	Value
Model Type	-	-	C-Type
Nominal Center Wavelength	-	nm	633, 850, 980, 1064, 1310, 1550, 2000 or Specify
Wavelength Range	-	nm	+/-15 (633/850/980/1064nm), others +/-20nm
Max. Insertion Loss	Port 3/4 ↔ Port 1/2, Proper SOP	dB	1.3, Typ. 1.1 (633/850nm), 1.1, Typ. 0.9 (980/1064/2000nm), others 0.9, Typ. 0.7
Min. Extinction Ratio	at 23°C, at Both Axis of Port 1/2/3/4 (only for PM Fiber)	dB	20, Typ. 22
Min. Return Loss	at Center Wavelength	dB	50
Max. Power Handling Rate	Continuous Wave	W	0.2 (633/850nm), 0.3 (980/1064nm), other 0.5 or Specify
Fiber Type	-	-	SM or PM Panda fiber or Specify
Max. Fiber Tensile Load	-	N	5
Operating Temperature	-	°C	-5 to 70
Operating Relative Humidity	Non-Condense	%	0 to 95
Storage Temperature	-	°C	-40 to 85
Storage Relative Humidity	Non-Condense	%	0 to 95

Above values are for device without connectors. For device with connectors, IL will be 0.3dB higher (0.5dB for 633/850nm), ER will be 2dB lower and return loss will 5dB lower.

The default alignment of working polarization and connector key is to slow axis of fiber. Special requirement please call. The slow axis of port 3 and port 4 (available for PM fiber) are perpendicular to each other. Special requirement please call.

### Package Dimensions



We are very pleased to do our best to provide customized package for optimizing.

### Ordering Informations

#### FPBSC-①-②-③-④-⑤-⑥-⑦-⑧

① - Center Wavelength

63 - 633nm

85 - 850nm

98 - 980nm

06 - 1060nm

31 - 1310nm

55 - 1550nm

20 - 2000nm

SS - Specify

② - Model Type

C - C Type

③ - Fiber Type on port 1/2/3/4

1 - SM 650 Fiber

2 - PM 630 Panda Fiber

3 - Hi 780 Fiber

4 - PM 850 Panda Fiber

5 - Hi 1060 Fiber

6 - PM 980 Panda Fiber

7 - SMF-28e Fiber

8 - PM 1310 Panda Fiber

9 - PM 1550 Panda Fiber

④ - Port 1 Alignment

1 - SM Fiber on Port 1

2 - Slow Axis 45° to Port 3

3 - Slow Axis 0° to Port 3

⑤ - Port 2 Alignment

1 - SM Fiber on Port 2

2 - Slow Axis 45° to Port 4

3 - Slow Axis 0° to Port 4

⑥ - Connector Type on port 1/2/3/4

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

⑦ - Fiber Jacket on Port 1/2/3/4

B - Bare Fiber

L - 900um Loose Tube

⑧ - Fiber Length

0.8 - 0.8m