

# Advanced Fiber Resources (Hong Kong), Ltd.

# 2 × 2 Polarization Beam Combiner/Splitter (DPBC/DPBS Series)

Rev 11B

#### **Description**

The Dual Polarization Beam Combiner/Splitter,  $2 \times 2$  PBC/PBS, is a compact high performance lightwave component that combines or divides two orthogonal polarization signals into one or two output fibers. The most common applications are in polarization mode dispersion compensator, EDFA, Raman Amplifier, coherent telecommunication systems and fiber sensor. The Dual Polarization Beam Combiner/Splitter is characterized with high extinction ratio and low insertion loss.

#### **Key Features**

- High Power Handling
- Low Insertion Loss

#### **Applications**

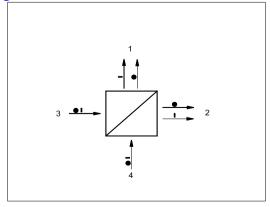
- EDFA
- Raman Amplifier

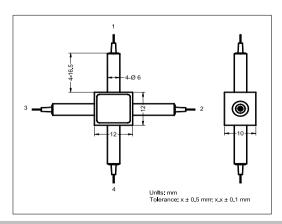
#### **Specifications**

Unit	Value	
-	Grade P	Grade A
nm	1550	
nm	λc ± 20	
dB	0.6	0.8
		0.0
dB	0.8	1.0
45	0.0	
dB	20	18
dB	50	
W	5	
kW	10	
-	PM1550 Panda Fiber for Port 1 & 2,	
	SMF-28 or PM1550 Panda Fiber for Port 3 & 4	
N	5	
$^{\circ}$	- 5 to + 70	
°C	- 40 to + 85	
	- nm nm dB dB dB W kW - N °C	- Grade P nm 1550 nm λc ± 2 dB 0.6 dB 0.8 dB 20 dB 50 W 5 kW 10 - PM1550 Panda Fiber SMF-28 or PM1550 Pand N 5 - 5 to +

<sup>&</sup>lt;sup>1</sup>IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

## **Package Dimensions**





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<sup>&</sup>lt;sup>2</sup>Maximum optical power handling will be 1 W only for connector added.

<sup>&</sup>lt;sup>3</sup>All of above value are tested at room temperature @ 23 °C, unless other specified.

## **Ordering Information**

**DPBC**-11-2-3-4-5-6-7 **DPBS**-11-2-3-4-5-6-7

11: Wavelength

③: Connector Type

4: Fiber Type

31 - 1310 nm

1 - FC/UPC

48 - 1480 nm

B - 250 µm Panda Fiber

2 - FC/APC

L - 900 µm Loose Tube

55 - 1550 nm

3 - SC/UPC

S - Specify

SS - Specify

4 - SC/APC

N - None

⑥: Fiber Length

⑦: Power Type

P - Premium

2: Grade

Q - 0.75 m

P - Pulsed

A - A Grade

S - Specify

C - Continuous Wave

⑤: Fiber Type for Port 3 & 4

1 - SMF-28 (Standard)

2 - Slow Axis Aligned 45° to Port 1

3 - Slow Axis Aligned to Port 1

S - Specify