



2x2 Polarization Beam Combiner/Splitter

(DPBC/DPBS Series)

The Dual Polarization Beam Combiner/Splitter, 2x2 PBC/S, 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 optic sensor. It is characterized with high extinction ratio, low insertion loss and high directivity.

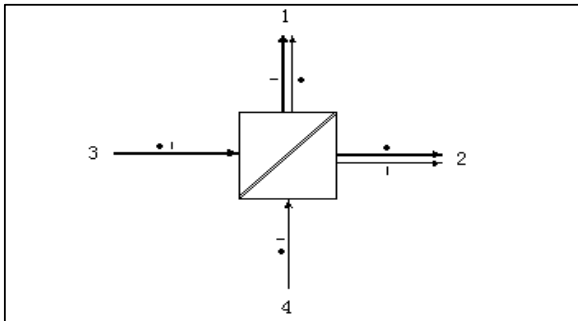
Specifications

Parameter	Unit	Grade P	Grade A
Center Wavelength	nm	1310,1480 ro 1550	
Operating Wavelength Range	nm	± 40	
Typ. Insertion loss(port 3 to port 1/2, at slow axis; port 4 to port 1/2, at fast axis)	dB	0.6	0.8
Max. Insertion loss(port 3 to port 1/2, at slow axis; port 4 to port 1/2, at fast axis)	dB	0.8	1.0
Min. Extinction Ratio (for splitter only)	dB	20	18
Min.Return Loss	dB	50	
Min.Directivity(port 1 to port 2, port 3 to port 4)	dB	50	
Max. Optical Power	mW	500	
Fiber Type		PM Panda Fiber on Port 1 & 2, SMF-28 or PM Panda Fiber on Port 3 & 4	
Max. Tensile Load	N	5	
Operating Temperature	°C	-5 to + 70	
Storage Temperature	°C	-40 to +85	

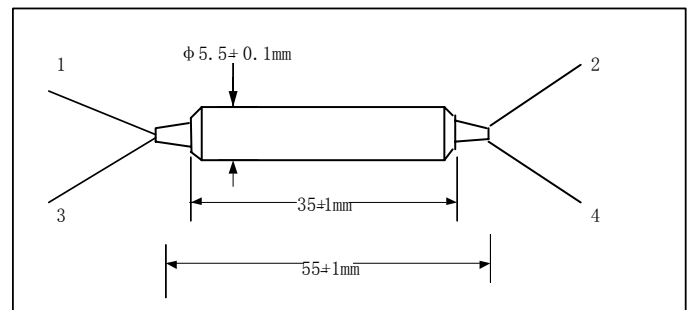
Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

Optical Path



Package Dimensions



Ordering Information

DPBC-①①-②-③-④-⑤-⑥

DPBS-①①-②-③-④-⑤-⑥

①①: Wavelength

31-1310nm

48-1480nm

55-1550nm

SS-Specify

②: Grade

P - Premium

A - A Grade

③: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

④: Fiber Type

B - 250um Panda Fiber

D - 400um Panda Fiber

L - 900um loose tube Panda Fiber

S - Specify

⑤⑤: Fiber Type on Port 3 & 4

1 - SMF-28 (Standard)

2 - Slow axis align 45° to port 1

3 - Slow axis align to port 1

S - Specify

⑥: Fiber Length

Q - 0.75m

S - Specify

Remark: The PM fiber and the connector key are aligned to the slow axis

If port 3 is SMF-28 fiber, 250um bare fiber will be used when 250um or 400um Panda Fiber is selected for port 1 and 2