



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

Rev 10

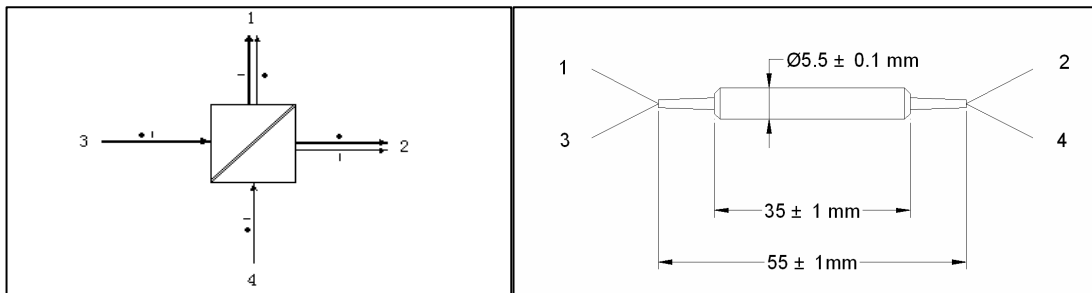
The Dual Polarization Beam Combiner/Splitter, 2 × 2 PBC/PBS, is a compact high performance lightwave component that combines or divides two orthogonal polarization signals into one or two output fibers. The most common applications are in polarization mode dispersion compensator, EDFA, Raman amplifier,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

Specifications

Parameter	Unit	Grade P	Grade A
Center Wavelength (λ_c)	nm	1310, 1480 or 1550	
Operating Wavelength Range	nm	$\lambda_c \pm 40$	
Typ. Insertion loss (Port 3 to Ports 1 & 2, at slow axis, Port 4 to Ports 1 & 2, at fast axis)	dB	0.8	1.0
Max. Insertion Loss (Port 3 to Ports 1 & 2, at slow axis, Port 4 to Ports 1 & 2, at fast axis)	dB	1.0	1.2
Min. Extinction Ratio (for splitter only)	dB	20	18
Min. Return Loss	dB	50	
Max. Optical Power (Continuous Wave)	mW	500	
Fiber Type		PM Panda fiber for Ports 1 & 2, SMF-28 or PM Panda fiber for Ports 3 & 4	
Max. Tensile Load	N	5	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

*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



Ordering Information

DPBC-①①-②-③-④-⑤-⑥

DPBS-①①-②-③-④-⑤-⑥

①①: Wavelength

③: Connector Type

④: Fiber Jacket

⑤: Fiber Type for Ports 3 & 4

31 - 1310 nm

1 - FC/UPC

B - 250 μ m Panda fiber

1 - SMF-28 (Standard)

48 - 1480 nm

2 - FC/APC

L - 900 μ m loose tube

2 - Slow axis aligned 45° to Port 1

55 - 1550 nm

3 - SC/UPC

S - Specify

3 - Slow axis aligned to Port 1

SS - Specify

4 - SC/APC

S - Specify

N - None

②: Grade

⑥: Fiber Length

P - Premium

Q - 0.75 m

A - A grade

S - Specify