

2x2 Polarization Beam Combiner / Splitter

Model #: PBC (PBS)

Description: 2x2 Polarization Beam Combiner or Splitter

Application: Fiber amplifier, fiber laser, fiber sensor, polarization mode dispersion compensator

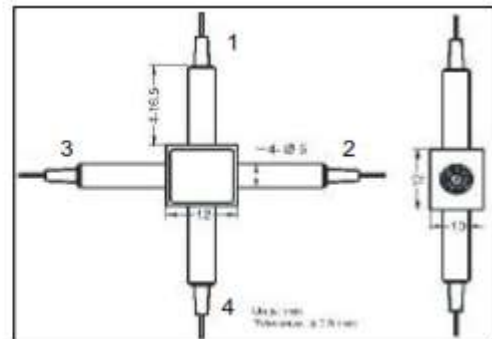
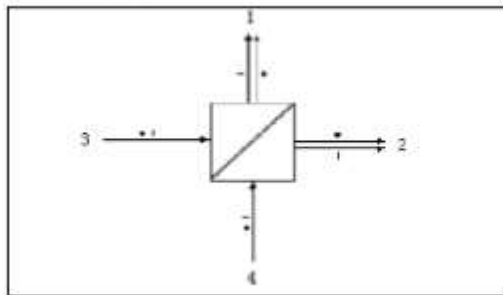
Specifications:

Parameter	Unit	P-grade	A-grade
Wavelength Range	nm	1550, 1480, 1450 or 1310 +/- 20	
Configuration		2 x 2	
Maximum 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
Typ. 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. Polarization Extinction Ratio (Splitter only)	dB	20	18
Minimum Return Loss	dB	50	
Maximum Optical Power (CW)	W	5	
Max. Peak Power for ns pulse	kW	10	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to + 80	
Dimension	mm	16 x 16 x10	
Fiber Type		SMF-28 OR PM 1550 Panda fiber for Port 3 & 4 PM 1550 Panda fiber for Port 1 & 2	

* Customized ratios are acceptable;

Note: each connector may contribute extra 0.3 dB IL, 5 dB lower RL and 2 dB lower ER. Keying to slow axis.

Package Dimensions



Ordering Information:

Beam Combiner PBC-AA-B-C-D-E-F

Beam Splitter PBS-AA-B-C-D-E-F

AA: wavelength	B: grade	C: connector type	D: fiber jacket	E: fiber type Port 3 & 4	F: fiber length	G: power type
31 - 1310	P – P grade	1 - FC/UPC	B – Bare fiber	1 - SMF-28 fiber	Q-0.75m	C - CW
45 - 1450	A – A grade	2 - FC/APC	L - 900 μm loss tube	2 – slow axis aligned 45° to Port 1	X-other	P - Pulsed
48 - 1480		3 - SC/UPC	X - other	3 - slow axis aligned Port 1		
55 - 1550		4 - SC/APC		X-other		
XX - other		N - none				
		X - other				