

Polarization Beam Combiner / Splitter (1x2)

Model #: PBC (PBS)

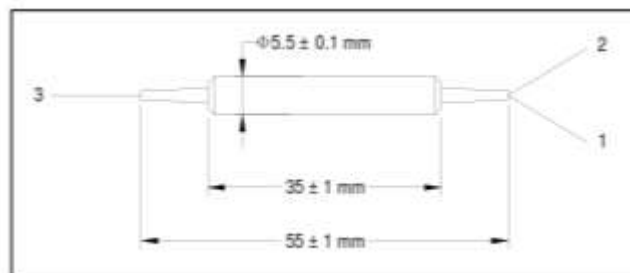
Description: Polarization Beam Combiner or Splitter

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

Specifications:

Parameter	Unit	Grade P	Grade A
Wavelength Range	nm	1550, 1480, 1310 +/- 40	
Configuration		1 x 2	
Typ. Insertion Loss	dB	0.4	0.5
Max. Insertion Loss	dB	0.6	0.7
Min. Polarization Extinction Ratio (for splitter)	dB	22	20
Min. Return Loss	dB	50	
Min. Directivity	dB	50	
Maximum Optical Power	mW	500	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to + 80	
Dimension (mm)	mm	5 (D) x 35 (L)	
Max. Tensile Load	N	5	
Fiber Type		SMF-28 OR PM Panda fiber for Port 3	
		PM Panda fiber for Port 1 & 2	

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



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	F: fiber type Port 3 & 4	G: fiber length
31 - 1310	P – premium	1 - FC/UPC	B – bare fiber	1 - SMF-28 fiber	Q-0.75m
45 - 1450	A – A grade	2 - FC/APC	L - 900 μm loss tube	2 – slow axis aligned 45° to Port 1	X-other
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			