

Polarization Beam Combiner/Splitter

The Polarization Beam Combiner/Splitter is a micro-optic device that can combine two polarized light signals into one output fiber, or split one light into two polarized outputs with their polarization states orthogonal to each other. The typical configuration of PBC uses the two PM fiber for input and the SM fiber for output.

Features

- *Low insertion loss
- *High extinction ratio
- *Excellent stability and reliability

Applications

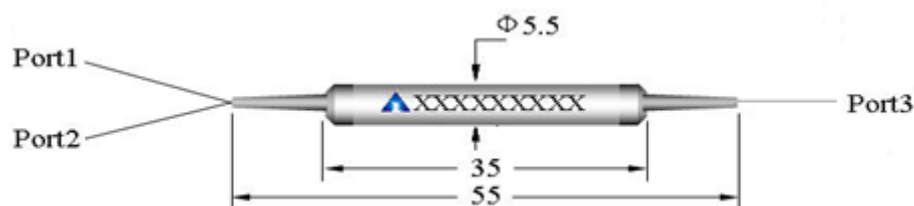
- * Fiber Optical Current Transducer
- * Fiber Sensors
- * Raman amplifier
- * Coherent Telecommunication Systems



Specifications

Parameters		Unit	Values			
Grade		-	P	A	P	A
Center Wavelength		nm	1310,1550		1064,980	
Operating Wavelength Range		nm	±40		±20	
Typ. Insertion Loss at 23℃		dB	0.4	0.5	0.6	0.7
Max. Insertion Loss at 23℃		dB	0.6	0.7	0.8	0.9
Min. Extinction Ratio at 23℃		dB	22	20	22	20
Directivity		dB	50			
Min. Return Loss		dB	50			
Max. Optical Power(CW)		mW	300			
Max. Tensile Load		N	5			
Fiber Type	Port 1 & 2	-	PM Panda fiber			
	Port 3		SMF-28E, Hi1060 ,PM Panda fiber or others			
Operating temperature		℃	-5~+70			
Storage temperature		℃	-40~+85			

Remark: The Above specifications is without connector. IL is 0.3dB (1310~1550nm) or 0.5dB (1064nm) higher, RL is 5dB lower and ER is 2dB lower for each connector added. The default connector key is aligned to slow axis.



Ordering Information

PBC/PBS - A — B — C — D — E — F — G — H — I		
A	Port Number	1x2(For PBS) , 2x1(For PBC)
B	Wavelength	1064=1064nm , 1310=1310nm,1550=1550nm,S=Special
C	Grade	P=Premium grade, A=A grade
D	Working axis Type	0=port3 SM fiber;1=Hi1060, 2=port3 PM fiber and slow axis aligned to port1, 3= port 3 PM fiber and slow axis align 45°to port1, 4=others
E	Pigtail Type	B=bare fiber, 0.9=0.9mm loose tube
F	Fiber Type	SMF-28e, Hi1060, PM1550, PM1310, PM980, etc
G	Connector Type	N=None, LC/UPC, LC/APC, SC/UPC, SC/APC, FC/UPC, FC/APC, etc
H	Package Size	5.5x35mm
I	Fiber length	003=0.3m, 005=0.5m; 010=1.0m;100=10m etc
For example: PBS-1*2-1064-P-2-0.9-PM980-FC/APC*3-5.5x35-010		