

Polarization Beam Combiner/Splitter

1. Description:

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 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.

2. Features:

- High Isolation
- Low Insertion Loss
- High Return Loss
- High Reliability and Stability

3. Applications:

- Pump Lasers, EDFA
- Raman Amplifier
- Optical Fiber Sensors
- High Speed Communication System



4. Specifications:

Parameter	Grade P	Grade A
Center Wavelength (nm)	1310, 1480, 1550	
Operating Wavelength Range (nm)	± 40	
IL (Typ. @ 5mm) (dB)	0.4	0.5
IL (Max @5mm.) (dB)	0.6	0.7
Extinction Ratio (Min.) (dB)	20	18
RL (Min.) (dB)	50	
The polarization axis	slow axis	
Operating Temperature (°C)	-5 ~ + 70	
Storage Temperature (°C)	-40 ~ +85	
Fiber Type	PM on port1 and 2, SM or PM on port3	
Package Dimensions (mm)	ø5.5x L35	
Handling Power(mW)	500	



Note: The K key aim at slow axis;

ake connection will increase IL: 0.3 dB ;reduceRL: 5 dB, reduce extinction ratio: 2 dB.