

Polarization Beam Combiner/Splitter (PBC/PBS)

Product Features

- High Extinction Ratio
- Low Insertion Loss
- Highly stability&Reliability

Product Applications

- EDFA and Raman Amplifier
- 40-Gbps,100-Gbps Transmission System
- Laboratory R&D

Specifications

Parameter	Unit	Value	
Center Wavelength	nm	1064	1310, 1480 or 1550
Operating Wavelength Range	nm	±20	±40
Typ. Insertion Loss at 23°C	dB	≤0.6	≤0.4
Max. Insertion Loss at 23°C	dB	≤0.8	≤0.6
Min. Return loss (input/output)	dB	≥50/50	
Min. Extinction ratio at 23°C	dB	≥22(for PBS)	
Min. Directivity	dB	50	
Max. Optical Power (CW)	mW	500	
Max. Tensile Load	N	5	
Fiber Type (Input-output)	-	Port 1& Port 2:PM Fiber Port 3:PM fiber or normal SM fiber	
package dimensions	mm	Φ5.5*55	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

* Above specifications are for devices without connectors

* For devices with connectors, IL is 0.3dB (1310~1550nm) or 0.5dB (1064nm) higher, RL will be 5dB lower and ER will be 2dB lower

* The PM fiber and the connector key are aligned to the slow axis

Ordering Information

PBS PBC	Wavelength	Pigtail Type	Fiber Type On Port 3	Fiber Length	Connector
1x2 2x1	1310nm 1480nm 1550nm 1064nm Specify	250um bare fiber 900um loose tube Specify	SMF-28e PM Panada ,slowAxis align 45° to port 1 PM Panada ,slowAxis align to port1 Specify	0.5m 1m 1.5m 2m Specify	N=None FC/APC FC/UPC SC/APC SC/UPC LC/UPC Specify