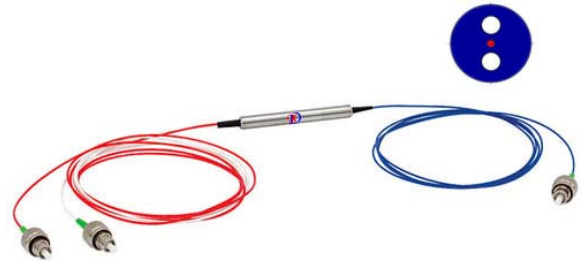
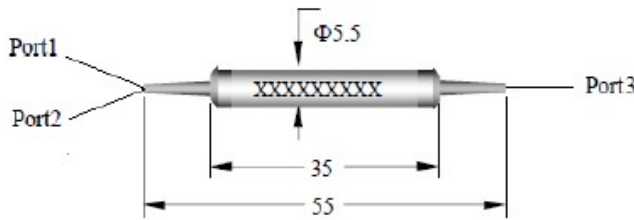




Polarization Beam Combiner/Splitter (IPBC/S) 1310&1480&1550nm

The Polarization Beam Combiner/Splitter is a compact high performance lightwave component that combines two orthogonal polarization signals into one output fiber. The most common application is to combine the light of two pump lasers into a single fiber to double the pump power to an Erbium-Doped Fiber Amplifier (EDFA) or a Raman Amplifier. The typical configuration uses two PM fibers for the input and the SM fiber for the output. The device can also be used as a beam splitter.

The products are Telcordia qualification tested.



Features

- ◆ Low Insertion Loss
- ◆ High Extinction Ratio
- ◆ Compact In-Line Package
- ◆ High Stability and Reliability

Applications

- ◆ Polarization MUX/Demux
- ◆ High power EDFA
- ◆ Optic sensor system
- ◆ Optic transmit system

Performance Specifications

Parameter	Value	
	P	A
Grade	P	A
Operating wavelength(nm)	1310, 1480, 1550	
Operating bandwidth(nm)	+/-40	+/-40
Typical insertion loss(dB)	< 0.4	< 0.5
Max insertion loss(dB)	0.6	0.7
Return loss(dB)	>55	>55
Typical Extinction Ratio(dB)	23	20
Handling power(mW)	< 500	
Tensile Load(N)	< 5	
Fiber Type	See ordering information	
Operating temperature(°C)	-5 ~ +70	
Storing temperature(°C)	-40 ~ +85	
Package dimension(mm)	Ø5.5 x 35 or customer specified	

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB 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 and fast axis is blocked.

Order information

PBC/PBS-①-②②-③-④-⑤⑤-⑥⑥-⑦⑦

①	②②	③	④	⑤⑤	⑥⑥	⑦⑦
Grade	Operating Wavelength	Fiber type (Port1& 2)	Fiber type (Port 3)	Fiber Diameter	Fiber Length	Connector
P:P A:A	13:1310nm 14:1480nm 15:1550nm XX:Others	1:SMF-28 250um bare fiber 2:400um Panda PM fiber	1:SMF-28 250um bare fiber 2:400um Panda PM fiber, slow axis 45° 3:400um Panda PM fiber, slow axis aligned with port 1 4:400um Panda PM fiber, slow axis aligned with port 2	25:250um 90:900um XX: Others	08:0.8m 10:1.0m XX:Others	00:None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC XX: Others