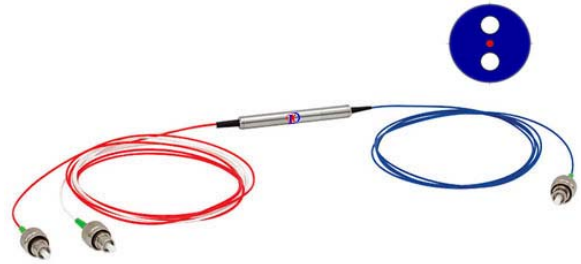
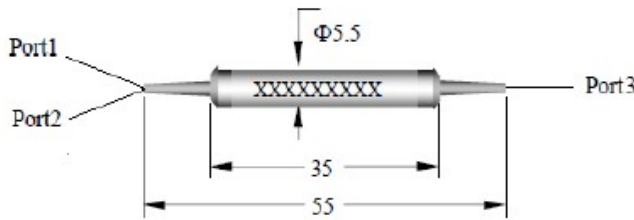




Isolator+Polarization Beam Combiner/Splitter (IPBC/S) 1310&1550nm

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
- ◆ High Isolation
- ◆ Compact In-Line Package
- ◆ High Stability and Reliability

Applications

- ◆ Fiber Laser
- ◆ Fiber Sensor
- ◆ EDFA & Raman Amplifier
- ◆ PMD Compensator

Performance Specifications

Parameter	Single stage	Dual stage
Center Wavelength (nm)	1310 ,1480 or 1550	
Operating Wavelength Range(nm)	±20	
Insertion Loss (dB)	≤0.7	≤0.8
Typical Isolation (dB)	40	51
Isolation (dB)	>30	>42
Extinction Ratio(for splitter only) (dB)	>20	>18
Direction of Incident Polarization	Slow Axis	
Return Loss (dB)	>50	
Optical Power (mW)	≤500	
Fiber Type	PM on port1 and 2,SM or PM on port3	
Max.Tensile Load (N)	≤5	
Operating Temperature (°C)	-5 ~+70	
Storage Temperature (°C)	-40 ~+85	
Package Dimension (mm)	ø5.5 x L35	

*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

IPBC/IPBS-①-②②-③-④④-⑤⑤-⑥⑥



①	②②	③	④④	⑤⑤	⑥⑥
Stage	Operating Wavelength	Fiber type (Port 3)	Fiber Diameter	Fiber Length	Connector
S:Single D: Dual	13:1310nm 15:1550nm XX:Others	1:SMF-28e 2: Panda PM fiber	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