

# 0109 Polarization Beam Combiner

PBC1000-P



## 1480 nm Polarization Beam Combiner

The PBC1000-P is a 1480 nm polarization beam combiner. It offers very low insertion loss, high return loss, high extinction ratio, high stability and high reliability. It can be used for fiber optical current transducers, fiber sensors, optical fiber gyros and coherent telecommunication systems.

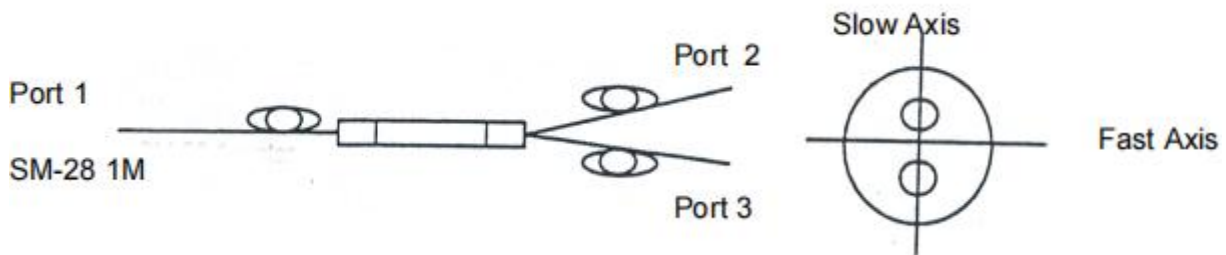
### FEATURES

- Low Insertion Loss
- High Return Loss
- High Extinction Ratio
- High Stability and Reliability

### USE IN

- Fiber Optical Current Transducer
- Fiber Sensor
- Optical Fiber Gyro
- Coherent Telecommunication Systems

### FUNCTIONAL DIAGRAM



Center Wavelength	1480 nm	
Insertion Loss	0.6 dB max	
Extinction Loss	20 dB min	
Input Orientation	Slow Axis on Both Inputs	
Return Loss	55 dB min.	
Operating Temperature	-5°C to +70°C	
Storage Temperature	-40°C to +85°C	
Fiber Type	Input 1 & 2	PM Fiber
	Output	SM Fiber

**Order notes to our customers:** The default parameters are as follows. For special needs, please contact sales.  
**1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.**  
**2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.**