

# 0109 Polarization Beam Combiner

PBC1001-P



## 1450 nm Polarization Beam Combiner

The PBC1001-P is a 1450 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.

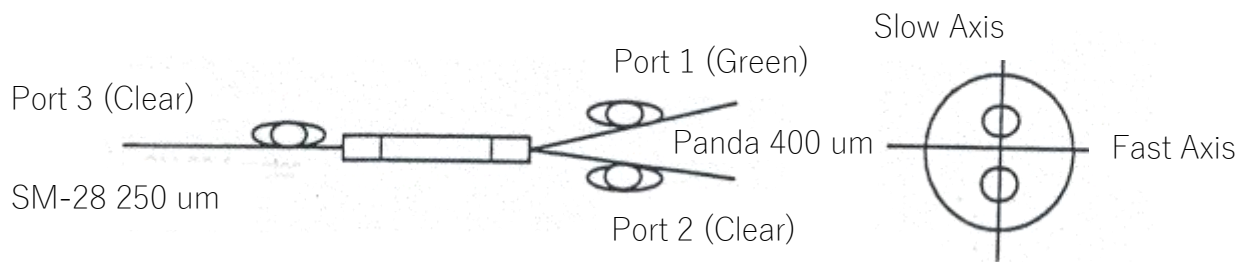
### FEATURES

- 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	1450 nm
Insertion Loss	0.40 dB max.
Fiber Extinction Loss	20.0/20.0 dB min.
Splitting Extinction Loss	20.0/20.0 dB min.
Splitting loss	0.30/0.30 dB max.
Combining Loss	0.40/0.40 dB max.
Return Loss	55 dB min.
Operating Temperature	-5°C to +70°C
Storage Temperature	-40°C to +85°C

**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.**