

# 0109 Polarization Beam Combiner



## 1310 nm Polarization Beam Combiner

The PBC2100-P is a 1310 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

Grade	P	A
Center Wavelength	1310 nm	
Operating Wavelength Range	±40 nm	
Insertion Loss@23°C	0.4 dB typ.; 0.6 dB max. 0.5 dB typ.; 0.7 dB max.	
Extinction Loss@23°C	22 dB min.	20 dB min.
Directivity	50 dB min.	
Return Loss	50 dB min.	
Optical Power(CW)	300 mW max.	
Tensile Load	5 N max.	
Operating Temperature	-5°C to +70°C	
Storage Temperature	-40°C to +85°C	
Fiber Type	Port 1&2	PM Panda Fiber
	Port 3	SMF-28E, Hi1060 or PM Panda Fiber