

[OEPAS-PBC-100]

Fiber Polarization Beam Combiner

Features:

- Low insertion loss
- High return loss
- UV to Mid Infrared
- Stable and reliable
- Light path epoxy free
- Low cost

Applications:

- Testing
- Biomedical
- Instrumentation
- Sensor
- Research

Product description:

Low cost Polarization Beam Combiner (**OEPAS-PBC-100**) is a micro optics based, UV to mid infrared wavelength product for many applications like instrumentation, sensor, biomedical et al. It combines two lights of different linear polarization status coming from PM fiber into one single mode fiber; it can stand high power with low insertion due to the epoxy free light path.



Fig1. Free space optics based fiber polarization combiner

Product specifications:

Parameters	Unit	EVOA
Operation Wavelength	nm	300 ~ 3000
Working Bandwidth	nm	~ 100
Insertion loss	dB	~ 1.0
Light Path		Port 1to3, port 2 to3
Return Loss	dB	>20
Cross Talk	dB	>30
Extinction Ratio	dB	>20
Polarization Direction		slow axis or customer specify
Operation Power	mW	<500
Input Fiber		SM
Output Fiber		PM
Operation Temperature	°C	0 ~ +60
Storage Temperature	°C	-20 ~ +80
Dimension (body only)	mm	46x26x22

** Some limitations apply.*

***Tuning range can significantly vary depending on FBG specifications.*

**** Recommended values. The ambient environment temperature can limit the performance, incl. the tuning range.*