

Fiber Polarization Beam Combiner

(300nm – 3000nm)

Low cost Polarization Beam Combiner (**OEPBC-2000**) 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.



Figure 1. Free space optics based fiber polarization 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

Specifications of OEPBC-2000

Parameter	Unit	Value
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
Extinctio Ratio	dB	>20
Polarization Direction		slow axis or customer specify
Operation Power	mW	<500
Input Fibre		SM
Output Fibre		PM
Operation Temperature	°C	0 ~ +60
Storage Temperature	°C	-20 ~ +80
Dimension (body only)	mm	46x26x22

Specification subject to change without notice