

Fiber Polarization Beam Combiner

(400nm – 2400nm)

Polarization Beam Combiner (**OEPBC-2000**) is a micro optics based, mid infrared product for many applications like instrumentation, sensor, biomedical et al. It can combine two lights of different linear polarization status coming from PM fiber into one single mode fiber, it can stand very 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
- Stable and reliable
- Light path epoxy free

Applications:

- Testing
- Biomedical
- Instrumentation
- Sensor
- Research

Specifications of OEPBC-2000

Parameter	Unit	Value
Center Wavelength	nm	400 ~ 2400
Insertion loss	dB	~ 1.0
Light Path		Port 1to3, port 2 to3
Return Loss	dB	>20
Cross Talk	dB	>30
Extinctio Ratio	dB	>15
Polarization Direction		slow axis or customer specify
Operation Power	mW	<1000
Operation Temperature	°C	0 ~ +60
Storage Temperature	°C	-20 ~ +80
Dimension (body only)	mm	46x26x22

Specification subject to change without notice