Fiber Polarization Beam Combiner/Splitter

(400nm – 2400nm)

Polarization Beam Combiner (Splitter) is low cost product for many applications like for the next-generation amplifier systems such as fiber Raman amplifier that require multiple pump sources. It also can be used for many scientific research applications from biomedical to instrumentation, sensor. It can combine two lights of different 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.

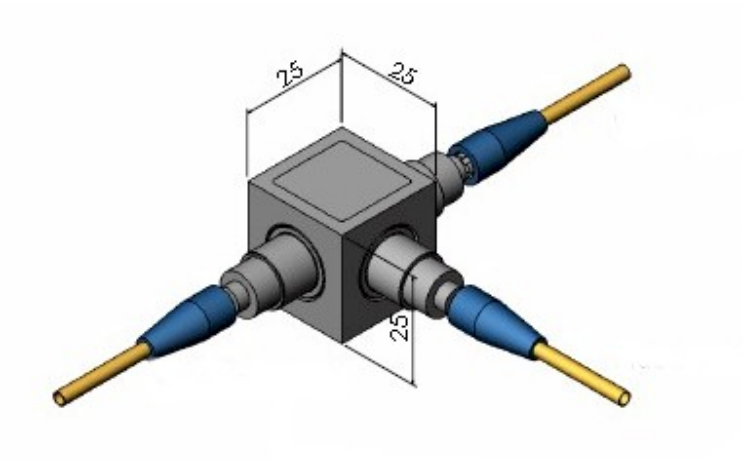

Figure 1. Free space based fiber polarization combiner/splitter

Features:

- Low insertion loss
- High return loss
- Stable and reliable
- Light path epoxy free

Applications:

- Raman amplifier
- High optical power EDFA
- Biomedical
- Instrumentation
- Sensor

Specifications

Parameter	Unit	Value
Wavelength	nm	400 ~ 2400
Insertion loss	dB	<1.0
Wavelength Dependent Loss	dB	<0.3
Light Path		Port 1to3, port 2 to3
Return Loss	dB	>20
Cross Talk	dB	>30
Extinctio Ratio	dB	>12
Polarization Direction		slow axis
Operation Power	mW	<1000
Operation Temperature	°C	0 ~ +60
Storage Temperature	°C	-20 ~ +85
Dimension	mm	25x25x25

Specification subject to change without notice

Low cost Product