

1064nm Polarization Maintaining Fiber Splitter



● Product Description

The 1064nm fused fiber polarization beam combiner/splitter is used to couple two orthogonal polarized light beams into a single optical fiber or to split one input light into two orthogonal linear polarized output beams. These devices operate entirely through optical fibers; the polarization state is combined or separated through the fused fiber node. Compared to polarization beam combiners based on calcite prisms, this all-fiber construction achieves higher transmission rates and can withstand higher

power. Since the polarization-maintaining fiber in the fused fiber polarization beam combiner is not used as a polarizer, the input light must be linearly polarized and aligned with the fast axis and/or slow axis of the optical fiber. These devices are ideal for coupling light from two pump lasers into a single fiber to enhance the input light for erbium-doped or Raman fiber amplifiers.

● Product features

Low insertion loss、 High extinction ratio、 High stability and reliability

● Part Number

MP-PBC-06-2-L-2-1-A-S-C

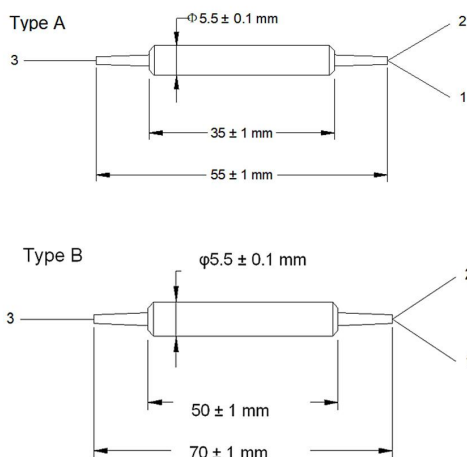
● Application area

Fiber optic sensing、 Ultrafast pulsed lasers、 Laser communication

● Core parameters

Central wavelength	Max. Tensile Load
1064nm	5N

● Dimension Drawing



● General Parameters

Parameters

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Typ. Peak Isolation	dB	28
Min. Isolation, λ_c , 23 °C, all polarization states	dB	23
Typ. Insertion Loss, 23 °C	dB	0.6
Max. Insertion Loss, 23 °C	dB	0.8
Min. Crosstalk (Port 1 to Port 3)	dB	50
Min. Return Loss	dB	50
Max. Polarization Dependent Loss	dB	0.2
Max. Average Optical Power	W	10 or 20
Max. Peak Power for ns Pulse	kW	10

Parameter	Unit	Value
Max. Tensile Load	N	5
Fiber Type		Specified by ordering info
Operating Temperature	°C	10 to +50
Storage Temperature	°C	0 to +60

* - Polarization-maintaining (PM) fiber is typically aligned with the slow axis.

Ordering info

MP-PBC-①①-②-③-④-⑤/MP-PBS-①①-②-③-④-⑤

①①: Wavelength	532 - 532 nm, 1064 - 1064 nm, 1310 - 1310 nm, 1550 - 1550nm, SS - Specify
②: Jacket Type	B - Bare fiber, 9- 900 μm loose tube, 3- 3 mm Cable, S - Specify
③: Fiber Length	1 - 1.0 m, S - Specify
④: Fiber Type	S - SM, P - PM
⑤: Connector Type	P- FC/PC, A- FC/APC, N - None, S-Specify