

509nm Polarization Beam Combiner/Splitter

509nm Polarization Beam Combiner/Splitter is a fiber passive component which can combine the two orthogonal polarization light into one output fiber or split the orthogonal polarization light to two output fiber, it's widely used in Quantum Communication System and Fiber Optic Diffraction field, the high power type is available upon request.

Application:

Quantum Communication
Fiber Optic Sensor
Laser System
Fiber Optic Diffraction

Features:

High Extinction Ratio
Low Insertion Loss
Optical Path Reversibility
High Reliability



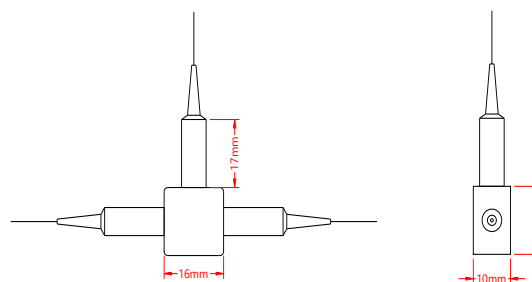
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	509	nm
Bandwidth	BW	± 10	nm
Typ. Insertion Loss	IL	1.2	dB
Max. Insertion Loss	IL	1.5	dB
Min. Extinction Ratio (For PBS)	ER	20	dB
Min. Directivity		50	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	500	mW
Max. Tensile Load		5	N
Fiber Type	For Port 1 and Port 2	PM 460-HP Panda fiber	-
	For Port 3	PM 460-HP Panda fiber or SM 460-HP fiber	-
Operating Temperature	T	-5~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension			mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 °C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower, slow axis is default aligned to the connector key.

Drawing:



Ordering Information (Part Number):

PBCS- WWW - FF - J - LL - CC				
WWW	FF	J	LL	CC
Wavelength	Fiber Type on Port 3	Fiber Jacket	Fiber Length	Connector
505 - 505nm	4H - 460-HP Fiber	B - 250um Bare Fiber	05 - 0.5m	NE - None
509 - 509nm	PM - PM Panda Fiber,	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
520 - 520nm	Slow Axis Aligned to Port 1	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
532 - 532nm	P4 - PM Panda Fiber,	3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
550 - 550nm	Slow Axis 45° Aligned to Port 1		SS - Specify	SU - SU/APC
560 - 560nm				LA - LC/APC
570 - 570nm				LU - LC/UPC
582 - 582nm				SS - Specify
SSS - Specify				