

975nm Polarization Beam Combiner/Splitter

975nm 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 Fiber Amplifier System and Fiber Optic Diffraction field, the high power type is available upon request.

Application:

Fiber Optic Amplifier
Fiber Optic Sensor
Laser System
Fiber Optic Diffraction

Features:

High Extinction Ratio
Low Insertion Loss
Optical Path Reversibility
High Reliability



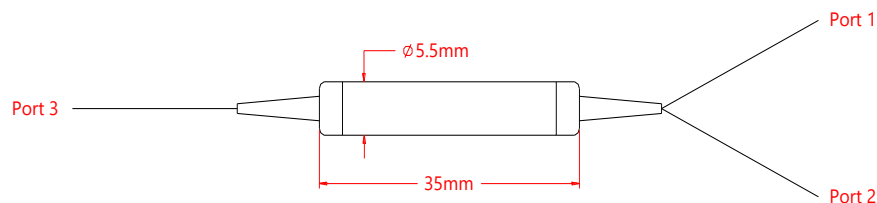
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	975	nm
Bandwidth	BW	± 20	nm
Typ. Insertion Loss	IL	0.8	dB
Max. Insertion Loss	IL	1.0	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 Panda fiber	-
	For Port 3	PM Panda fiber or HI 1060 fiber	-
Operating Temperature	T	-5~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension		$\Phi 5.5 \times L35$	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
905 - 905nm	H1 - HI 1060 Fiber	B - 250um Bare Fiber	05 - 0.5m	NE - None
915 - 915nm	PM - PM Panda Fiber,	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
920 - 920nm	Slow Axis Aligned to Port 1	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
930 - 930nm	P4 - PM Panda Fiber,	3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
940 - 940nm	Slow Axis 45° Aligned to Port 1		SS - Specify	SU - SU/APC
950 - 950nm				LA - LC/APC
975 - 975nm				LU - LC/UPC
980 - 980nm				SS - Specify
SSS - Specify				