

975nm High Power Polarization Beam Combiner/Splitter

975nm High Power 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 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



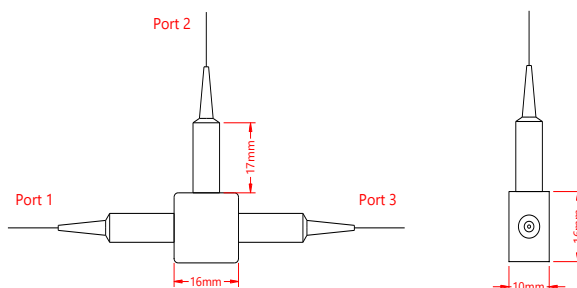
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	975	nm
Bandwidth	BW	± 10	nm
Typ. Insertion Loss	IL	0.8	dB
Max. Insertion Loss	IL	1.0	dB
Min. Extinction Ratio (For PBS)	ER	22	dB
Min. Directivity		45	dB
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	1, 3, 5, 10, 20 or customized	W
Max. Peak Power	P	5, 10 or customized	KW
Max. Tensile Load		5	N
Fiber Type	For Port 1 and Port 2	PM Panda fiber	-
	For Port 3	PM Panda fiber or HI 780, HI 1060 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):

HPBCS- WWW - FF - HH - J - LL - CC					
WWW	FF	HH	J	LL	CC
Wavelength	Fiber Type on Port 3	Handling Power	Fiber Jacket	Fiber Length	Connector
905 - 905nm	H7 - HI 780 Fiber	01 - 1W	B - 250um Bare Fiber	05 - 0.5m	NE - None
915 - 915nm	H1 - HI 1060 Fiber	03 - 3W	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
920 - 920nm	PM - PM Panda Fiber,	05 - 5W	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
930 - 930nm	Slow Axis Aligned to Port 1	10 - 10W	3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
940 - 940nm	P4 - PM Panda Fiber,	20 - 20W		SS - Specify	SU - SU/APC
950 - 950nm	Slow Axis 45° Aligned to Port 1	SS - Specify			LA - LC/APC
975 - 975nm					LU - LC/UPC
980 - 980nm					SS - Specify
SSS - Specify					