

790nm 2x2 Polarization Beam Combiner/Splitter

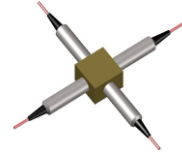
790nm 2x2 Polarization Beam Combiner/Splitter is a fiber passive component which can combine the two polarized light into one output fiber or split the orthogonal polarization light to two output fiber, it's widely used in Quantum Communication and Fiber Optic Diffraction field, the high power type is 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



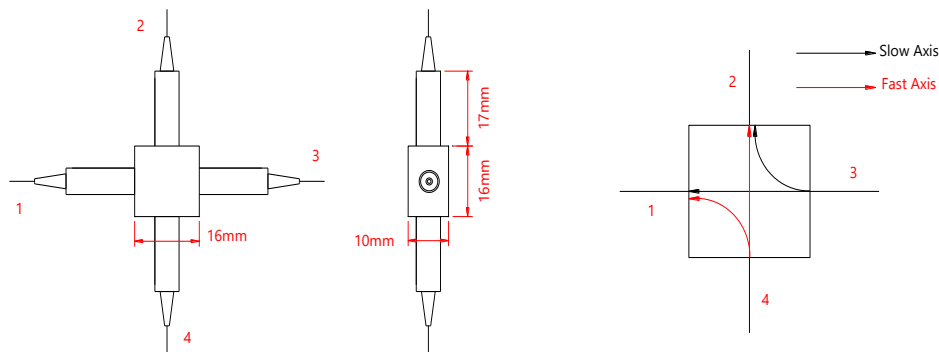
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	790	nm
Bandwidth	BW	± 10	nm
Insertion Loss	Port 3 to 1&2 @ slow axis Port 4 to 1&2 @ fast axis	IL	Max. 1.2, Typ. 1.0
Min. Extinction Ratio (For PBS)	ER	18	dB
Min. Directivity		50	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	500 or specify	mW
Max. Tensile Load		5	N
Fiber Type	For Port 1 and Port 2 For Port 3 and Port 4	PM Panda fiber PM Panda fiber or HI 780 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):

WWW	FF	J	LL	CC
Wavelength	Fiber Type on Port 3 and Port 4	Fiber Jacket	Fiber Length	Connector
760 - 760nm	H7 - HI 780 Fiber	B - 250um Bare Fiber	05 - 0.5m	NE - None
780 - 780nm	PM - PM Panda Fiber,	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
785 - 785nm	Slow Axis Aligned to Port 1 and 2		15 - 1.5m	FU - FC/UPC
790 - 790nm	P4 - PM Panda Fiber,		20 - 2.0m	SA - SC/APC
793 - 793nm	Slow Axis 45° Aligned to Port 1 and 2		SS - Specify	SU - SU/APC
795 - 795nm	SS - Specify			LA - LC/APC
SSS - Specify				LU - LC/UPC
				SS - Specify