

## 1580nm Polarization Beam Combiner/Splitter

1580nm 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



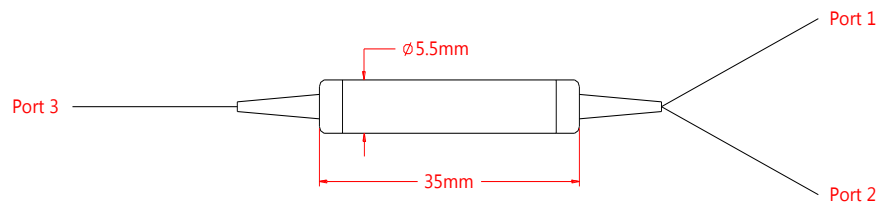
### Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	$\lambda$	1580	nm
Bandwidth	BW	$\pm 20$	nm
Typ. Insertion Loss	IL	0.4	dB
Max. Insertion Loss	IL	0.6	dB
Min. Extinction Ratio (For PBS)	ER	22	dB
Min. Directivity		50	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	300	mW
Max. Tensile Load		5	N
Fiber Type	For Port 1 and Port 2	PM Panda fiber	-
	For Port 3	PM Panda fiber or SMF-28e 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):

WWW	FF	J	LL	CC
Wavelength	Fiber Type on Port 3	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	S2 - SMF-28e Fiber	B - 250um Bare Fiber	05 - 0.5m	NE - None
1450 - 1450nm	PM - PM Panda Fiber,	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1480 - 1480nm	Slow Axis Aligned to Port 1	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1550 - 1550nm	P4 - PM Panda Fiber,	3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
1580 - 1580nm	Slow Axis 45° Aligned to Port 1		SS - Specify	SU - SU/APC
				LA - LC/APC
				LU - LC/UPC
				SS - Specify