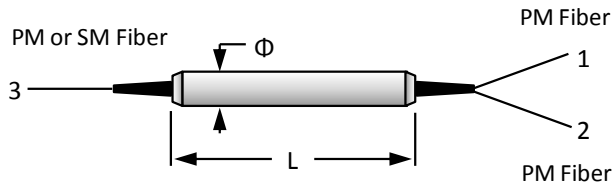


## Broadband Polarization Beam Combiner/Splitter 810±40 nm

The 810 nm Broadband Polarization Beam Combiner/Splitter is a micro-optic component designed to combine two orthogonal polarization signals into one single fiber, or, it can also be used to split orthogonal polarizations from a single input fiber (PM fiber or SM fiber) into two output PM fibers. It's widely used in EDFA or Raman Amplifier to enlarge pump power by combining two pump laser signals into a single output fiber. High Power handling is available upon request.



### Features

- Low Insertion Loss
- High Extinction Ratio
- Broadband Operating
- High Power available on request

### Applications

- EDFA & Raman Amplifier
- Fiber Sensor
- Combine or Split Orthogonal Polarizations
- Test & Measurement

### Performance Specification

Parameter	Value	Unit
Center Wavelength	810 or customized	nm
Bandwidth	±40	nm
Configuration	1X2	
Typ. Insertion Loss	0.8	dB
Max. Insertion Loss	1.0	dB
Min. Extinction Ratio (for splitter only)	20	dB
Min. Directivity	50	dB
Min. Return Loss	45	dB
Max. Optical Power (Continuous Wave)	300 (higher is available upon request)	mW
Max. Tensile Load	5	N
Fiber Type	PM 850 Panda Fiber on Port 1 & Port 2 PM 850 Panda Fiber or HI 780 Fiber on Port 3	
Operating Temperature	-5 to +65	°C
Storage Temperature	-40 to +85	°C
Package Dimension	Φ5.5×L35	mm

### Note

- \* For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.
- \* The PM fiber and the connector key are aligned to the slow axis.
- \* For high power applications, please contact us to confirm details.

### Ordering Information

#### BPBCS-AAA-BB-C-DD-EE

AAA	BB	C	DD	EE
Wavelength	Fiber Type on Port 3	Fiber Jacket	Fiber Length	Connector
810 - 810nm	H7 - HI 780 Fiber	B - 250um Bare Fiber	05 - 0.5m	NE - None
SSSS - Specify	P1 - PM Panda Fiber, Slow Axis Aligned 45° to Port 1	L - 900um Loose Tube	08 - 0.8m	FA - FC/APC
	P2 - PM Panda Fiber, Slow Axis Aligned to Port 1		10 - 1.0m	FP - FC/PC
	SS - Specify		15 - 1.5m	SA - SC/APC
			SS - Specify	SP - SC/PC
				LA - LC/APC
				LP - LC/PC
				SS - Specify