

Polarization Beam Combiner/Splitter 1310nm

The 1310 nm 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
- High Reliability & Stability
- 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	1310, 1480, 1550 or customized	nm
Bandwidth	±40	nm
Configuration	1X2	
Typ. Insertion Loss	0.4	dB
Max. Insertion Loss	0.6	dB
Min. Extinction Ratio (for splitter only)	22	dB
Min. Directivity	50	dB
Min. Return Loss	50	dB
Max. Optical Power (Continuous Wave)	500 (higher is available upon request)	mW
Max. Tensile Load	5	N
Fiber Type	PM Panda Fiber on Port 1 & Port 2 PM Panda Fiber or SMF-28e Fiber on Port 3	
Operating Temperature	-5 to +70	°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

PBCS-XXXX-XX-X-XX-XX

XXXX	XX	X	XX	XX
Wavelength	Fiber Type on Port 3	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	SM - SMF-28e Fiber	B - 250um Bare Fiber	05 - 0.5m	NE - None
1480 - 1480nm	P1 - PM Panda Fiber, Slow Axis Aligned 45° to Port 1	L - 900um Loose Tube	08 - 0.8m	FA - FC/APC
1550 - 1550nm	P2 - PM Panda Fiber, Slow Axis Aligned to Port 1		10 - 1.0m	FP - FC/PC
SSSS - Specify	SS - Specify		15 - 1.5m	SA - SC/APC
			SS - Specify	SP - SC/PC
				LA - LC/APC
				LP - LC/PC
				SS - Specify