2x2 Polarization Beam Combiner/Splitter
(DPBC / DPBS Series)

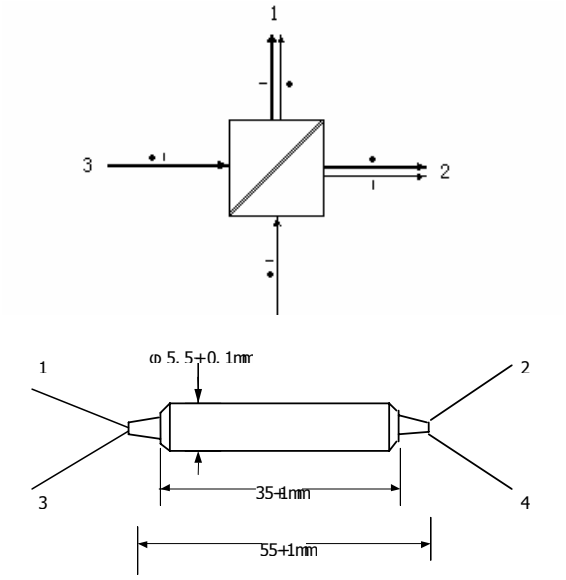
The Dual Polarization Beam Combiner / Splitter, 2x2 PBC/S, is a compact high performance lightwave component that combines or divides two orthogonal polarization signals into one or two output fibers. The most common applications are in polarization mode dispersion compensator, EDFA, Raman Amplifier, coherent telecommunication systems and fiber optic sensor. It is characterized with high extinction ratio, low insertion loss and high directivity.

Specifications

Parameter	Unit	Grade P	Grade A
Center Wavelength	nm	1310,1480 ro 1550	
Operating Wavelength Range	nm	± 40	
Typ. Insertion loss (port 3 to port 1/2, at slow axis; port 4 to port 1/2, at fast axis)	dB	0.8	1.0
Max. Insertion loss (port 3 to port 1/2, at slow axis; port 4 to port 1/2, at fast axis)	dB	1.0	1.2
Min. Extinction Ratio (for splitter only)	dB	20	18
Min. Return Loss	dB	50	
Min. Directivity (port 1 to port 2, port 3 to port 4)	dB	50	
Max. Optical Power (Continuous Wave)	mW	500	
Fiber Type		PM Panda fiber on Ports 1 & 2, SMF-28 or PM Panda fiber on Ports 3 & 4	
Max. Tensile Load	N	5	
Operating Temperature	℃	-5 to + 70	
Storage Temperature	℃	-40 to +85	

1. Above specifications are for devices without the connectors
2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

Dimension



Boston Applied Technologies,Inc.

Ordering Information

PMFC-①①-②-③③-④-⑤-⑥-⑦-F

①①: Wavelength	③③: Coupling Ratio	⑤: Fiber Type
31 - 1310nm	01 - 1/99	B - 250um bare fiber
55 - 1550nm	02 - 2/98	L - 900um loose tube
SS - Specify	04 - 4/96	
	05 - 5/95	⑥: Fiber Type on Tap port
	10 - 10/90	M - SMF-28 (For 1x2 only, AFR standard product)
②: Type	20 - 20/80	
1 - 1x2	50 - 50/50	P - Panda fiber
2 - 2x2	SS - Specify	S - Specify
	④: Connector Type	⑦: Fiber Length
	1 - FC/UPC	Q - 0.75 m
	2 - FC/APC	S - Specify
	3 - SC/UPC	
	4 - SC/APC	⑧: Axis Alignment
	N - None	F - Fast axis blocked
	S - Specify	

The PM fiber and the connector key are aligned to the slow axis

Contact Information

For more information about BATi's leadership in variable optical attenuation technology and other optical networking modules and components, visit our website at www.bostonati.com.

To obtain additional technical information or to place an order for this product, please contact us at:

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