2x2 Polarization Beam Combiner/Splitter

Features

Compact High Performance
High Extinction Ratio
Low Insertion Loss
High Directivity

Applications

Polarization Mode Dispersion Compensat(
EDFA & Raman Amplifier
Coherent Telecommunication Systems
Fiber Optic Sensor

Specifications

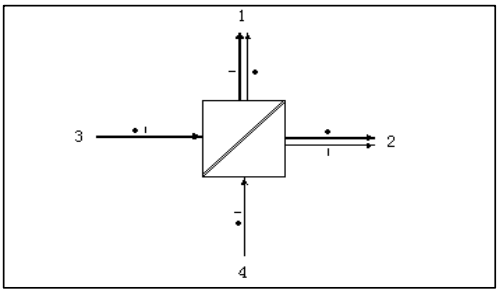
Parameter	Unit	Values	
Grade		Grade P	Grade A
Center Wavelength	nm	1310, 1480 or 1550	
Operating Wavelength Range	nm	±40	
Typ. Excess Loss (Port 3 to Port 1/2 at Slow Axis; Port 4 to Port 1/2 at Fast Axis)	dB	0.6	0.8
Max. Excess Loss (Port 3 to Port 1/2 at Slow Axis; Port 4 to Port 1/2 at Fast Axis)	dB	0.8	1.0
Min. Return Loss	dB	50	
Min. Extinction Ratio (for Splitter only)	dB	20	18
Min. Directivity (Port 1 to Port 2, Port 3 to Port 4)	dB	50	
Max. Optical Power (CW)	mW	500	
Max. Tensile Load	N	5	
Fiber Type		PM Panda Fiber on Port 1 & 2	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

*Above specifications are for device without connector.

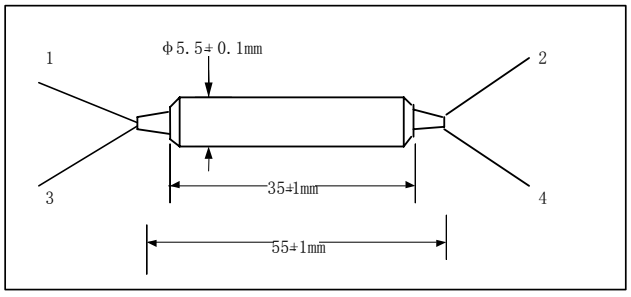
*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.

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

Optical Path



Package Dimensions



Ordering Information

APBC-①①-②-③-④④④④-⑤⑤⑤⑤-⑥⑥-⑦

APBS-①①-②-③-④④④④-⑤⑤⑤⑤-⑥⑥-⑦

①①: Wavelength
31 - 1310nm
48 - 1480nm
55 - 1550nm
SS - Specify

②: Grade
P - Premium
A - A Grade
S - Specify

③: Port
2 - 2x2

④④④④: Connector Type Port 1, 2, 3 & 4
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify

⑤⑤⑤⑤: Fiber Jacket on Port 1, 2, 3 & 4
B - 250um Bare Fiber
D - 400um Bare Fiber
L - 900um Loose Tube
S - Specify

⑥⑥: Fiber Type on Port 3 & 4
1 - SMF-28e Fiber
2 - PM Panda Fiber, Slow Axis align 45°to Port 1
3 - PM Panda Fiber, Slow Axis align to Port 1
S - Specify

⑦: Fiber Length
0.8 - 0.8m
S - Specify