



2 × 2 Polarization Beam Combiner/Splitter (GK-DPBC/DPBS Series)

● Description

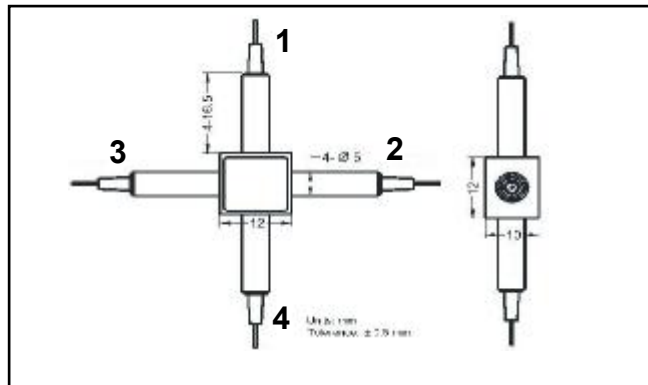
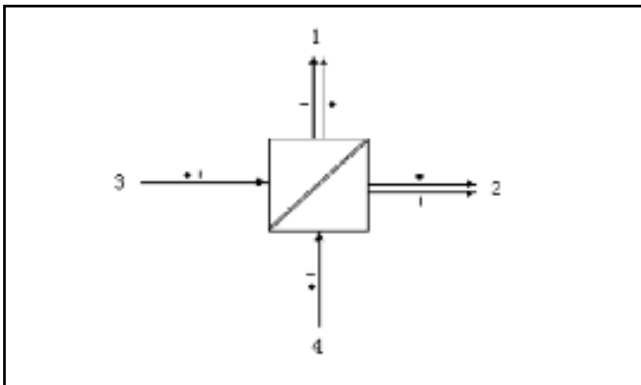
The Dual Polarization Beam Combiner/Splitter, 2 × 2 PBC/PBS, is a compact high performance lightwave component that combines or divides two orthogonal polarization signals into one or two output fibers. The most common applications are in polarization mode dispersion compensator, EDFA, Raman Amplifier,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

● Specifications

Parameter	Unit	Grade P	Grade A
Center Wavelength (λ_c)	nm	1550	
OperatingWavelengthRange	nm	$\lambda_c \pm 20$	
Typ. Insertionloss (Port 3 toPort 1&2, at slowaxis, Port 4 toPort 1&2, at fast axis)	dB	0.6	0.8
Max. InsertionLoss (Port 3 toPort 1&2, at slowaxis, Port 4 toPort 1&2, at fast axis)	dB	0.8	1.0
Min. ExtinctionRatio (for splitter only)	dB	20	18
Min. ReturnLoss	dB	50	
Max. OpticalPower (ContinuousWave)	W	5	
Max. PeakPower for nsPulse	kW	10	
Fiber Type	-	PM1550Panda fiber for Port 1&2, SMF-28or PM1550Panda fiber for Port 3& 4	
Max. Tensile Load	N	5	
Operating Temperature	°C	-5 to+70	
Storage Temperature	°C	-40 to+85	

¹ILis0.3dBhigher, RLis5dBlower, andERis2dBlower for eachconnector added.
Connector keyisaligned toslowaxis.

● Package Dimensions



● Ordering Information

GK-DPBC-①-②-③-④-⑤-⑥-⑦

GK-DPBS-①-②-③-④-⑤-⑥-⑦

①: Wavelength

- 31 - 1310nm
- 48 - 1480nm
- 55 - 1550nm
- SS - Specify

②: Fiber Type for Port 3 & 4

- 1 - SMF-28 (Standard)
- 2 - Slowaxisaligned45° toPort 1
- 3 - Slowaxisaligned toPort 1
- S - Specify

③: Connector Type

- 1 - FC/UPC 4 - SC/APC
- 2 - FC/APC N - None
- 3 - SC/UPC S - Specify

④: Fiber Jacket

- B - 250 μm Bare Fiber
- L - 900 μm Loose Tube
- S - Specify

⑤: Fiber Length

- Q - 0.75 m
- S - Specify

⑥: Grade

- P - Premium
- A - Agrade

⑦: Power Type

- P - PulseApplication
- C - ContinuousWave