

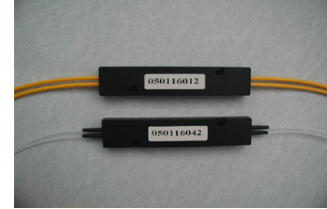
Single Mode 1310/1550nm Fiber Coupler/Splitter

(PSBC series - Broadband Type)



The PSBC Single Mode Couplers/Splitters are based on BTF technology. They offer very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very tight uniformity in a wide wavelength range. These components find extensive application to perform power splitting and monitoring functions for many types of communication systems, or FBG sensor interrogation systems.

SM 1310/1550 Coupler/Splitter



General Specifications

Parameter	Unit	Values			
Grade		P			
Operating Wavelength	nm	1310, 1550, or Dual-Windows(1310+1550), or Three-Window(1310+1490+1550)			
Bandwidth	nm	+/-40			
Coupling Ratio	%	01/99	05/95	10/90	50/50
Max. Insertion Loss	dB	21.5/0.2	14.6/0.4	10.8/0.6	3.4
Max. Excess Loss	dB	0.08			
Max. PDL (tap port)	dB	0.1			
Thermal Stability	dB/°C	≤ 0.002dB/°C over -40 °C to +85°C			
Directivity	1X2	≥ 50 dB			
	2X2	≥ 65 dB			
Fiber length		1 meter, others on request			
Fiber type		Coning SMF-28			
Package Dimensions		250um bare fiber and dia. 3.0 mm X 35 mm			
Operating Temperature		-40 °C to +85 °C			

*The above specification is for coupler without connector

*For devices with connectors, insertion loss will be 0.3dB higher, RL will be 5dB lower.

Ordering Information

PSBC-①-②②-③③-④-⑤-⑥-⑦

① : Port
1 - 1X2
2 - 2X2

④ : Grade
P - P grade
S - Specify

⑥ : Fiber type
0.25 - 250um bare fiber
0.9 - 900um tube
3.0 - 3mm jacket

②② : Wavelength
1310 - 1310nm 1550 - 1550nm
3155 - 1310nm+1550nm
314955 - 1310nm+1490nm+1550nm

⑤ : Connector Type
01 - FC/UPC 07 - ST/UPC
02 - FC/APC 08 - ST/APC
03 - SC/UPC N - None
04 - SC/APC S - Specify
05 - LC/UPC
06 - LC/APC

⑦ : Fiber Length
1 - 1m
S - Specify

③③ : Coupling Ratio
01 - 01/99
05 - 05/95
10 - 10/90
50 - 50/50
SS - Specify

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