

Single Mode Broadband Coupler, 2W (SBC series)



The SBC Single Mode Broadband Couplers 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 in all kinds of optical communication systems.



Specifications

Parameter	Unit	Values			
Grade		P			
Operating Wavelength	nm	1310 or 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. PDL (tap/through port)	dB	0.3/0.1	0.3/0.1	0.25/0.1	0.10
Max. Excess Loss	dB	0,15			
Thermal Stability	dB/°C	≤ 0.002dB/°C over -5 °C to +70 °C			
Directivity	1X2	≥ 50 dB			
	2X2	≥ 65 dB			
Fiber length		1 meter, others on request			
Fiber type		Corning SMF-28			
Max Optical Power	W	2			
Package Dimensions		250um bare fiber and dia. 3.0 mm X 48 mm			
		900um loose tube and dia. 3.5mm X 66mm			
		3mm loose cable and 90 mm X 16mm X 9mm			
Operating Temperature		-5 °C to +70 °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

SBC-①-②②-③③-④-⑤-⑥-⑦-⑧

□ :Port

1 - 1X2

2 - 2X2

□ : Grade

P - P grade

S - Specify

Ⓞ:Fiber type

B - 250 um bare fiber

L - 900 um loose tube

C - 3mm loose cable

□□ : Wavelength

31 - 1310

55 - 1550

SS - Specify

Ⓢ:Connector Type

1 - FC/UPC

2 - ST/UPC

3 - LC/UPC

4 - FC/APC

5 - SC/APC

6 - SC/UPC

N - None

S - Specify

Ⓢ:Fiber Length

1 - 1m

S - Specify

□□ : Coupling Ratio

01 - 01/99

05 - 05/95

10 - 10/90

50 - 50/50

SS- Specify

ⓈⓈ : Fiber Option

F F - Corning SMF-28

S - Specify