Singlemode Broadband Coupler (SBC Series)

Rev 11

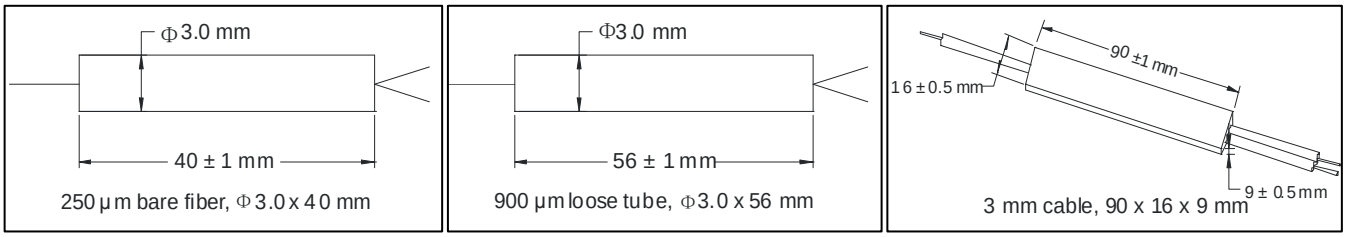
The Singlemode Broadband Coupler offers very low insertion loss, low polarization dependence and excellent enviromental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range. These components find extensive applications to perform power splitting and mornitoring fuctions in all kinds of optical communication systems.

Specifications

Parameter		Unit	Value				
Center Wavelength (λc)		nm	1310 or 1550 or Specify				
Operating Wavelength		nm	λc ± 40				
Coupling Ratio		%	01/99	02/98	03/97	05/95	10/90
Max. Insertion Loss		dB	21.5/0.2	18.5/0.25	17.5/0.3	14.6/0.4	10.8/0.65
Coupling Ratio		%	20/80	30/70	40/60	50/50	
Max. Insertion Loss		dB	7.5/1.2	5.6/1.8	4.4/2.5	3.4/3.4	
Max. PDL (Tap/Through Port)		dB	0.10				
Thermal Stability		dB/℃	⩽ 0.002 over -5 ℃ to +70 ℃				
Min. Return Loss		dB	50				
Min. Directivity	1 × 2	dB	55				
	2 × 2	dB	60				
Max. Optical Power (Continuous Wave)		mW	300				
Fiber Type			SMF-28 fiber				
Package Dimensions		mm	250 μm bare fiber, Φ3.0 × 40 mm				
		mm	900 μm loose tube, Φ3.0 × 56 mm				
		mm	3 mm cable, 90 × 16 × 9 mm				
Operating Temperature		℃	-5 to +70				
Storage Temperature		℃	-40 to +85				

*IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

Package Dimensions



Ordering Information

SBC-①-②②-③③-④-⑤-⑥

①: Configuration
1 - 1 × 2
2 - 2 × 2

②②: Wavelength
31 - 1310 nm
55 - 1550 nm
SS - Specify

③③: Coupling Ratio
01 - 01/99
02 - 02/98
03 - 03/97
05 - 05/95
10 - 10/90
20 - 20/80
30 - 30/70
40 - 40/60
50 - 50/50
SS - Specify

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

⑤: Fiber Jacket
B - 250 μm bare fiber
L - 900 μm loose tube
C - 3 mm cable
S - Specify

⑥: Fiber Length
1 - 1 m
S - Specify