

Singlemode Broadband Coupler (SBC Series)

Spec Review No.: SR17737C Date: Oct 21, 2025

The Singlemode Broadband Coupler offers very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range.

Specifications

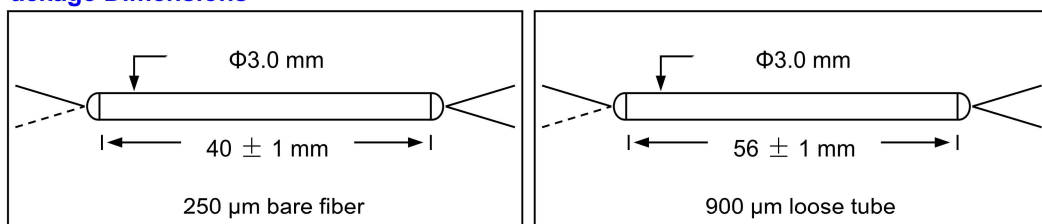
Parameter	Unit	Value		
Center Wavelength (λ_c)	nm	850	1064	1310
Operating Wavelength Range	nm	± 100	± 100	$\pm 100^{***}$
Coupling Ratio	%	2/98, 5/95, 10/90, 50/50, or Specified		
Coupling Ratio Tolerance (e.g. 50/50)	%	6	5	5
Max. uniformity 50/50 ratio	dB	1	0.5	0.5
Excess Loss	dB	0.25	0.15	0.15
Max. WDL	dB		1	
Max. PDL	dB		0.2	
Thermal Stability	dB/°C	≤ 0.002 over -5 °C to +70 °C		
Min. Return Loss	dB		55	
Min. Directivity	1 × 2	dB	55	
	2 × 2	dB	60	
Max. Optical Power (Continuous Wave)	mW		300	
Fiber Type		HI780C	HI1060Flex	SMF-28 fiber
Operating Temperature	°C		-5 to +70	
Storage Temperature	°C		-40 to +85	

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

**Below the cut-off wavelength, single mode operation is not guaranteed.

***1370nm-1410nm will not be considered because of the water peak.

Package Dimensions



Ordering Information

SBC-①-②②-③③-④-⑤-⑥

①: Configuration	②②: Wavelength	③③: Coupling Ratio	④: Connector Type
1 - 1 × 2	31 - 1310 nm	01 - 01/99	1 - FC/UPC
2 - 2 × 2	55 - 1550 nm	02 - 02/98	2 - FC/APC
	SS - Specify	03 - 03/97	3 - SC/UPC
		05 - 05/95	4 - SC/APC
		10 - 10/90	N - None
			S - Specify
⑤: Fiber Jacket	⑥: Fiber Length		
B - 250 μm bare fiber	1 - 1.0 m		
L - 900 μm loose tube	S - Specify		
3 - 3 mm cable			
S - Specify			