



Singlemode Broadband Coupler (SBC Series)

Rev 11

Description

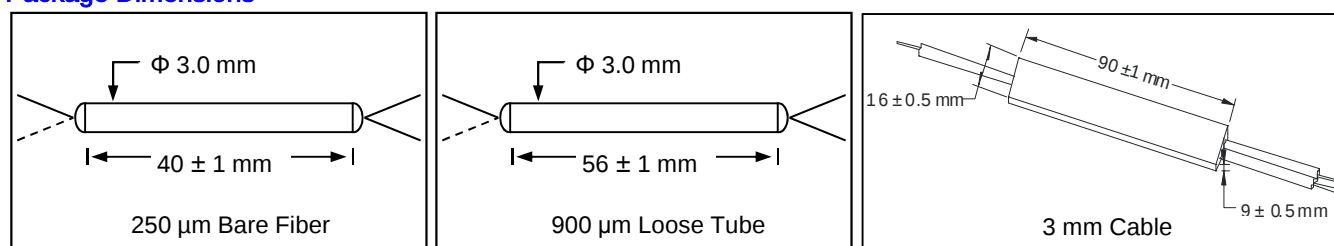
The Singlemode Broadband Coupler offers very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range. These components find extensive applications to perform power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

Specifications

Parameter	Unit	Value				
Center Wavelength (λ_c)	nm	1310, 1550, or specified				
Operating Wavelength	nm	$\lambda_c \pm 40$				
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/°C	≤ 0.002 over - 5 °C to + 70 °C				
Min. Return Loss	dB	50				
Min. Directivity	1 × 2	55				
	2 × 2	60				
Max. Optical Power (Continuous Wave)	mW	300				
Fiber Type		SMF-28 Fiber				
Operating Temperature	°C	- 5 to + 70				
Storage Temperature	°C	- 40 to + 85				

¹IL 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: Connector 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

3 - 3 mm Cable

S - Specify

⑥: Fiber Length

1 - 1.0 m

S - Specify