



Singlemode Broadband Coupler (GK-SBC Series)

● Description

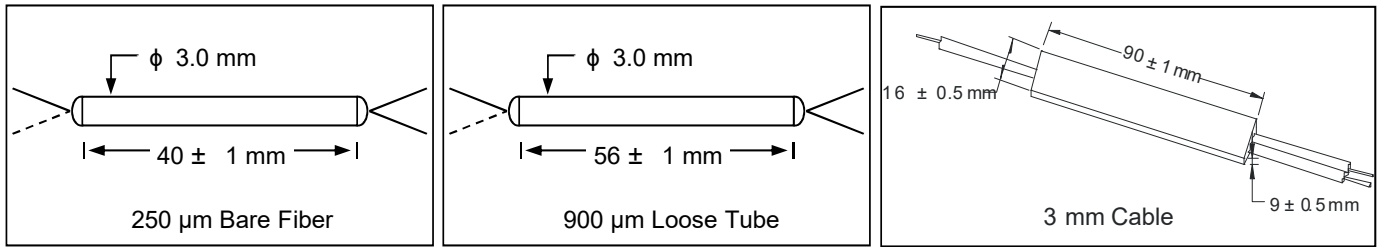
The Singlemode Broadband Coupler offers very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range. These components find extensive applications to perform power 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 to + 70
Min. Return Loss	dB	50
Directivity 1 × 2 2 × 2	dB	55 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

GK-SBC-①-②-③-④-⑤-⑥

①: Configuration

1 - 1 × 2
2 - 2 × 2

②: Wavelength

31 - 1310 nm
55 - 1550 nm
SS - Specify

③: Coupling Ratio

01 - 01/99 20 - 20/80
02 - 02/98 30 - 30/70
03 - 03/97 40 - 40/60
05 - 05/95 50 - 50/50
10 - 10/90 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
3 - 3 mm Cable
S - Specify

⑥: Fiber Length

1 - 1 m
S - Specify