

# Singlemode Broadband Coupler (GK-SBC Series)

## ● Description

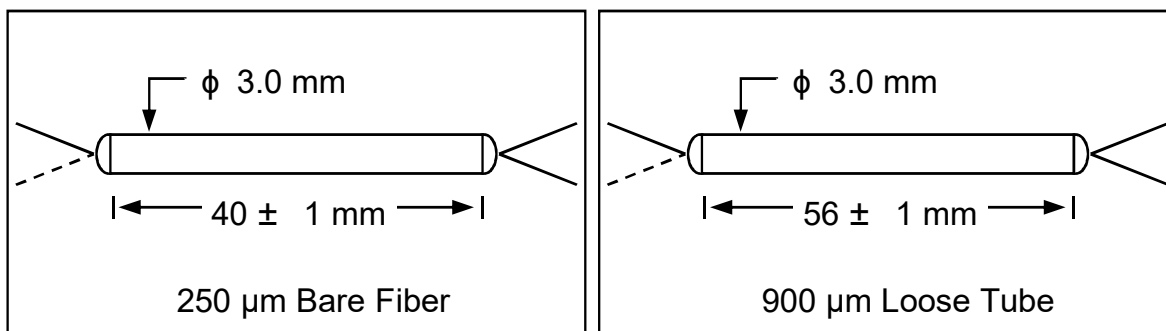
The Singlemode Broadband Coupler offers low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range.

## ● Specifications

Parameter	Unit	Value
Center Wavelength ( $\lambda_c$ )	nm	850 1064 1310
Operating Wavelength Range	nm	$\pm 100$ $\pm 100$ $\pm 100$
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
Thermal Stability	dB/°C	$\leq 0.002$ over - 5 °C to + 70 °C
Min. Return Loss	dB	55
Min. Directivity 1 × 2 2 × 2	dB	55 60
Max. Optical Power (Continuous Wave)	mW	300
Fiber Type	-	HI 780C HI 1060 Flex SMF-28 Fiber
Operating Temperature	°C	- 5 to + 70
Storage Temperature	°C	- 40 to + 85

<sup>1</sup>IL 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