



## Singlemode Standard Coupler (GK-SMC Series)

### ● Description

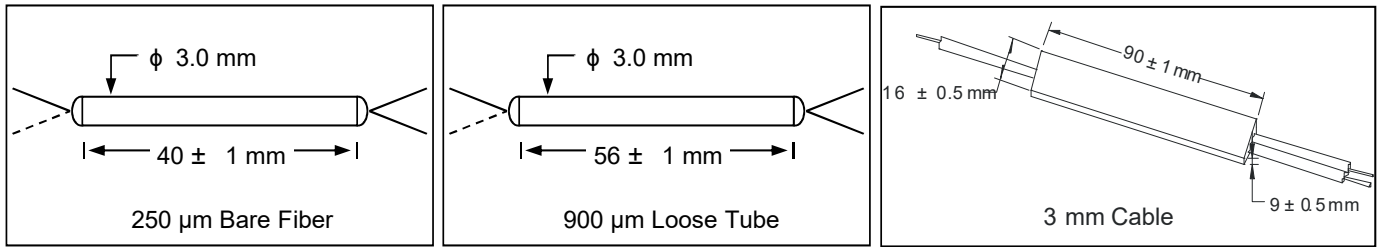
The Singlemode Standard Coupler offer very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range of both 1310 nm and 1550 nm windows. These components find extensively applications to perform power splitting and monitoring functions in all kinds of optical communication systems.

### ● Specifications

Parameter	Unit	Value
Center Wavelength ( $\lambda_c$ )	nm	1310, 1550, or specified
Operating Wavelength	nm	$\lambda_c \pm 20$
Coupling Ratio	%	01/99 02/98 03/97 05/95 10/90 15/85 20/80
Max. Insertion Loss	dB	21.4/0.2 18.5/0.25 17.4/0.3 14.5/0.4 10.8/0.65 8.8/0.95 7.5/1.2
Coupling Ratio	%	25/75 30/70 35/65 40/60 45/55 50/50
Max. Insertion Loss	dB	6.5/1.55 5.6/1.8 5/2.25 4.4/2.5 3.85/2.98 3.4
Max. PDL (Tap/Through Port)	dB	0.10
Max. Excess Loss	dB	0.10
Thermal Stability	dB/°C	$\leq 0.002$ over - 5 °C to + 70 °C
Min. Return Loss	dB	50
Directivity 1 × 2 2 × 2	dB	55 60
Max. Optical Power (CW)	mW	300
Fiber Type	-	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-SMC-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 15 - 15/85 40 - 40/60  
02 - 02/98 20 - 20/80 45 - 45/55  
03 - 03/97 25 - 25/75 50 - 50/50  
05 - 05/95 30 - 30/70  
10 - 10/90 35 - 35/65

### 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