



Singlemode Standard Coupler (GK-SMC Series)

● Description

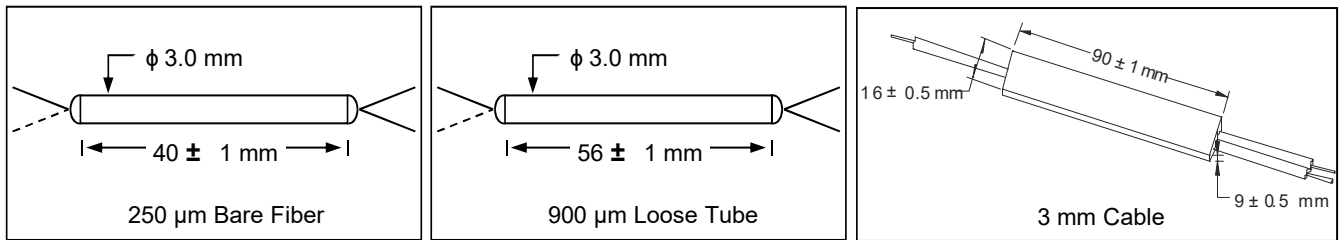
The Singlemode Standard Couplers offer very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range of both 1310 nm and 1550 nm windows. These components find extensively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

● Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1310, 1550, or specified
Operating Wavelength	nm	$\lambda_c \pm 20$
Coupling Ratio	%	01/99 02/98 03/97 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 40/60 45/55 50/50
Max. Insertion Loss	dB	6.5/1.55 5.6/1.8 5/2.25 3.85/2.98 3.4
Max. PDL (Tap/Through Port)	dB	0.10
Max. Excess Loss	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 (CW)	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-SMC-①-②-③-④-⑤-⑥

①: Configuration

1 - 1 × 2
2 - 2 × 2

②: Wavelength

31 - 1310 nm
55 - 1550 nm

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 4 - SC/APC
2 - FC/APC N - None
3 - SC/UPC S - Specify

⑤: Fiber Jacke

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