



980/1060 nm Singlemode Coupler (GK-SMC Series)

● Description

The Singlemode 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.

● Key Features

- High Power
- High Reliability

● Applications

EDFAs Systems

Raman Amplifiers

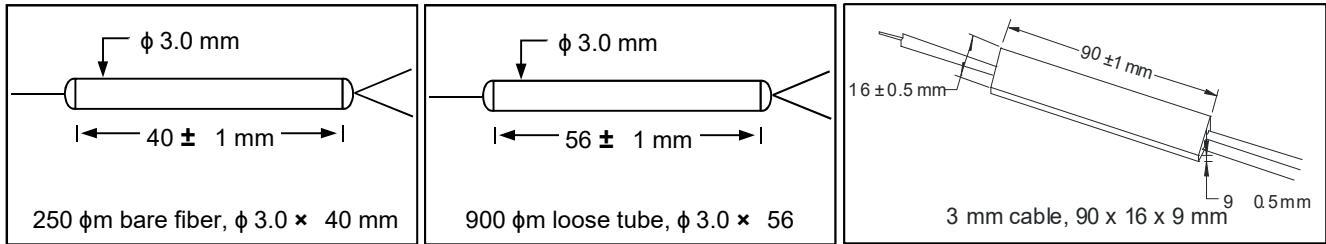
Vehicle Application

● Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	980 or 1060
Operating Wavelength	nm	$\lambda_c \pm 10$
Coupling Ratio	%	01/99, 02/98, 03/97, 05/95, 10/90
Max. Insertion Loss	dB	21.9/0.25 18.5/0.3 16.5/0.35 14.5/0.45 11/0.7
Coupling Ratio	%	20/80 30/70 40/60 50/50
Max. Insertion Loss	dB	7.7/1.3 5.8/2.0 4.5/2.7 3.5/3.5
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 2 × 2	dB	55 60
Max. Optical Power (Continuous Wave)	mW	300
Operating Temperature	°C	- 5 to + 70
Storage Temperature	°C	- 40 to + 85

¹IL is 0.5 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 \times 2
- 2 - 2 \times 2

②: Wavelength

- 98 - 980 nm
- 06 - 1060 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

- 1 - 1.0 m
- S - Specify

⑥: Fiber Type

- H - HI 1060 Flex Fiber
- O - OFS 980 Fiber