

Singlemode Standard Coupler (GK-SMC Series)

● Description

The SMC 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 1310nm and 1550 nm windows. These components find extensively 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

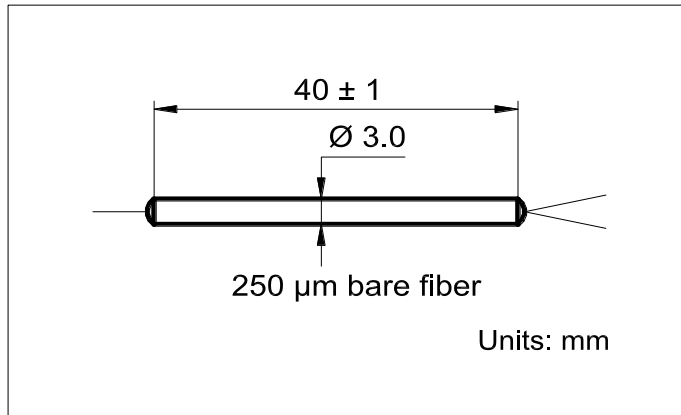
Vehicle Application

● Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1550
Operating Wavelength	nm	$\lambda_c \pm 20$
Coupling Ratio	%	50/50
Max. Insertion Loss	dB	3.4
Max. PDL (Tap/Through Port)	dB	0.10
Max. Excess Loss	dB	0.10
Thermal Stability	dB/°C	≤ 0.002
Min. Return Loss	dB	50
Directivity	dB	55
Max. Average Optical Power	W	3
Max. Peak Power for ns Pulse	kW	10
Operating Temperature	°C	- 40 to + 105
Storage Temperature	°C	- 40 to + 125

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: Wavelength

55 - 1550 nm

③: Coupling Ratio

50 - 50/50

④: Connector Type

N - None

⑤: Fiber Type

B - 250 µm bare fiber

S - Specify

⑥: Fiber Length

1 - 1.0 m

S - Specify