



445 - 2100 nm Special Wavelength Coupler (GK-SMC Series)

● Key Features

- Wavelength 445 - 2100 nm Available
- Low Excess Loss
- Coupling Ratio from 1/99 to 50/50 Available
- High Power Handling
- High Stability and Reliability
- Special Wavelengths WDM also Available

● Applications

Power Monitoring	Splitter	Fixed Attenuation	Testing Instruments
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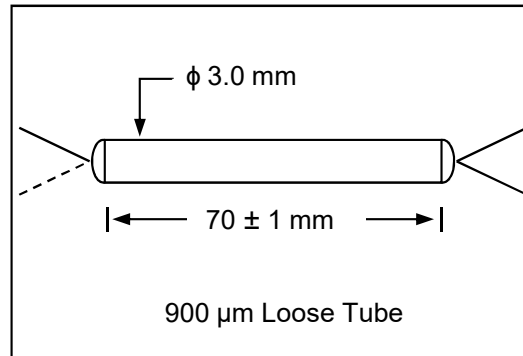
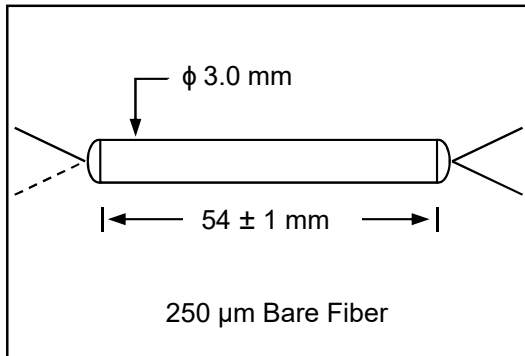
● Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	488,532,635 780,830 980,1064 1700,2000
Operating Wavelength	nm	$\lambda_c \pm 5$ $\lambda_c \pm 10$ $\lambda_c \pm 10$ $\lambda_c \pm 20$
Max. PDL	dB	0.2 0.2 0.1 0.2
Max. Excess Loss	dB	0.3 0.3 0.15 0.3
Max. Excess Loss for each Connector	dB	1.5 0.7 0.5 0.3
Max. Optical Power (Continuous Wave)	W	4
Thermal Stability	dB/°C	≤ 0.005
Min. Return Loss	dB	50
Min. Directivity	dB	50
Fiber Type	-	Singlemode Fiber
Operating Temperature	°C	- 40 to + 75
Storage Temperature	°C	- 40 to + 85
Coupling Ratio & Insertion Loss		
Coupling Ratio	%	1/99 2/98 5/95 10/90 20/80 30/70 40/60 50/50
Max. Insertion Loss, λ_c	dB	22/0.3 18.5/0.35 14.5/0.5 11.5/0.75 8.0/1.5 6.0/2.0 4.8/2.8 3.6/3.6

²The Optical Power is 1 W only for connector added. For visible wavelength, the limit is 50 mw.

³Data tested at central wavelength only.

● Package Dimensions



¹The Package Dimensions is $\Phi 3.0 \times 47$ mm for 2000 nm bare fiber coupler.

● Ordering Information

GK-SMC-①-②-③-④-⑤-⑥-⑦

①: Configuration

1 - 1 × 2
2 - 2 × 2

②: Wavelength

488 - 488 nm
532 - 532 nm
635 - 635 nm
780 - 780 nm
830 - 830 nm
980 - 980 nm
1064 - 1064 nm
1700 - 1700 nm
2000 - 2000 nm
SSSS - Specify

③: Coupling Ratio

01 - 01/99
02 - 02/98
05 - 05/95
10 - 10/90
20 - 20/80
30 - 30/70
40 - 40/60
50 - 50/50
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 Tube

⑥: Fiber Length

Q - 0.75 m
1 - 1 m
S - Specify

⑦: Fiber Type

1 - Nufern 460-HP
2 - Nufern 630-HP
3 - Corning HI 780C
4 - Corning HI 1060
5 - Corning HI 1060 Flex
6 - Corning SMF-28
7 - Nufern SM 1950
S - Specify