488 - 2100 nm Polarization Maintaining Fused Coupler (GK-PMC Series)

● Key Features

- Wavelength 488 - 2100 nm Available
- Coupling Ratio from 0.01/99.99 to 50/50 Available
- Operating on both Fast and Slow Axes
- Low excess Loss
- High Power Handling
- High Stability and Reliability

● Applications

Power Monitoring | Fiber Amplifier | Fiber Gyroscope | Coherent Communication | Fiber Laser | Test Equipment

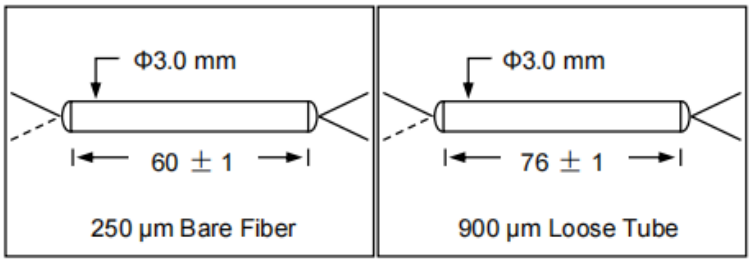
● Specifications

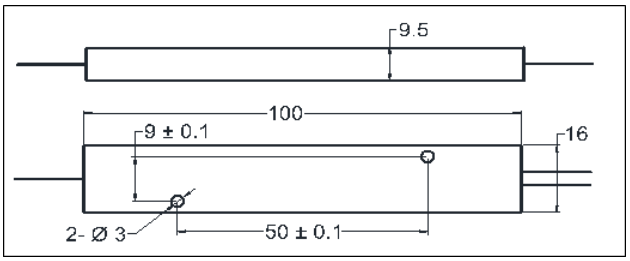
Parameter	Unit	Value
Center Wavelength (λc)	nm	488, 532, 635 780,830 980,1064 1310, 1480, 1550 1700, 2000
Operating Wavelength	nm	λc ± 5 λc ± 10 λc ± 10 λc ± 20 λc ± 20
Typ. Excess Loss	dB	0.8 0.5 0.4 0.2 0.5
Max. Excess Loss	dB	1.2 0.8 0.6 0.4 0.8
Min. ER[1]	dB	18 18 20[2] 20 20
Max. Excess Loss for each Connector	dB	1.5 0.7 0.5 0.3 0.3
Max. Optical Power (Continuous Wave)	W	2
Thermal Stability	dB/℃	≤ 0.005
Min. Return Loss	dB	50
Min. Directivity	dB	50
Fiber Type for Signal Port	-	PM Fiber
Fiber Type for Tap Port	-	PM Fiber, or Singlemode Fiber
Operating Temperature	℃	- 5 to + 70
Storage Temperature	℃	- 40 to + 85

Coupling Ratio & Its Tolerance		
Coupling Ratio	%	1/99 , 2/98, 5/95, 10/90, 20/80,30/70 40/60, 50/50
Max. Coupling Ratio Tolerance, λc	%	±0.3 ±0.5 ±0.7 ±1.0 ±2.0 ±2.0 ±2.5 ±3.0
Coupling Ratio	%	0.1/99.9 0.01/99.99
Tap Ratio Tolerance, λc	dB	30 ±3 40 ±4

[1]ER data listed in the table are for the ports with coupling ratio greater than 10%.
It will be 2 dB lower for a tap port with coupling ratio between 1-10%. For 1% tap port,
ER is not considered.
[2]ER will be 2 dB lower for Nufern FUD-3460 fiber and Nufern PM 1950.
[3]RL is 5 dB lower, ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.
[4]The Optical Power is 1 W only for connector added. For visible wavelength, the limit is 50 mW.
[5]Data tested at central wavelength only.

● Package Dimensions





● Ordering Information

GK-SMC-①-②-③-④-⑤-⑥-⑦-⑧

①: Configuration

1 - 1 × 2

2 - 2 × 2

②: Wavelength

488 - 488 nm 064- 1064 nm

532 - 532 nm 1310 - 1310 nm

635 - 635 nm 1480 - 1480 nm

780 - 780 nm 1550 - 1550 nm

830 - 830 nm 1700 - 1700 nm

980 - 980 nm 2000 - 2000 nm

SSSS - Specify

③: Coupling Ratio

01 - 01/99 40 - 40/60

02 - 02/98 50 - 50/50

05 - 05/95 0.1 - 0.1/99.9

10 - 10/90 0.01 - 0.01/99.99

20 - 20/80 SS - Specify

30 - 30/70

④: Fiber Type for Tap Por

P - PM Fiber

S - Singlemode Fiber

⑤: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

⑥: Fiber Jacket

B - 250 μm Bare Fiber

L - 900 μm Loose

3 - 3 mm Cable

S - Specify

⑦: Fiber Length

H - 0.5 m

Q - 0.75 m

S - Specify

⑧: Fiber Type

1 - Nufern PM 460-HP

2 - Nufern PM 630-HP

3 - Corning Panda PM 850

4 - Corning Panda PM 980

5 - Corning Panda PM 1310

6 - Corning Panda PM 1550

7 - Nufern PM 1950

8 - Nufern FUD-3460

S - Specify