

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

Rev 11E

Key Features

- Wavelength 445 - 2100 nm available
- Coupling ratio from 1/99 to 50/50 available
- Low excess loss
- High power handling
- High stability and reliability
- Special Wavelengths WDM also available

Applications

- Power monitoring
- Splitter
- Fixed attenuation
- Testing instruments

Specifications

Parameter	Unit	Value			
		488, 532, 635	780, 830	980, 1064	1700, 2000
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

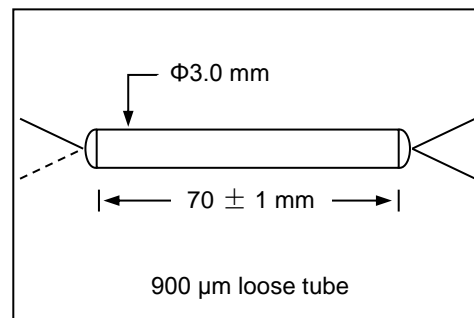
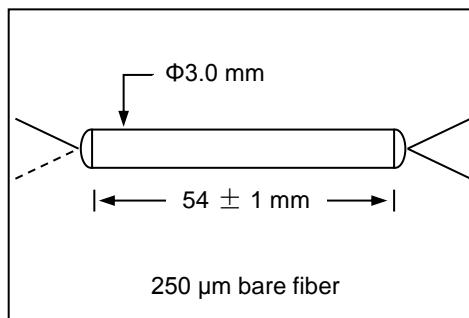
Coupling Ratio	%	1/99	2/98	5/95	10/90	20/80	30/70	40/60	50/50
Max. Insertion Loss, λ_c	dB	22/0.3	18.5/0.35	14.5/0.5	11.5/0.75	8.0/1.5	6.0/2.0	4.8/2.8	3.6/3.6

*RL is 5 dB lower for each connector added.

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

*Data tested at central wavelength only.

Package Dimensions



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

Ordering Information

SMC -①-②②②②-③③-④-⑤-⑥-⑦

①: Configuration

1 - 1 x 2

2 - 2 x 2

②②②②: 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

③③: 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 - 1m

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