



## 1064 nm Singlemode Coupler (FUD-3584) (SMC Series)

Rev 11B

### Description

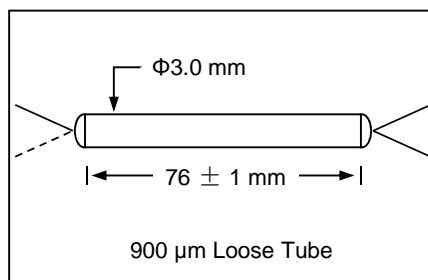
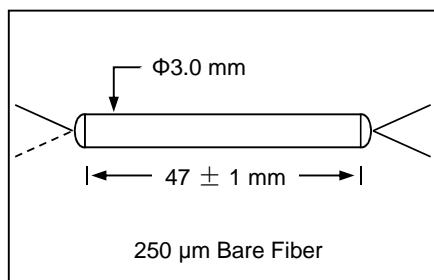
The Singlemode Coupler offers very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range. These components find extensive applications to perform power splitting and monitoring functions in all kinds of optical communication systems.

### Specifications

Parameter	Unit	Value			
Center Wavelength ( $\lambda_c$ )	nm	1064			
Operating Wavelength	nm	$\lambda_c \pm 10$			
Coupling Ratio	%	01/99	02/98	05/95	10/90
Max. Insertion Loss	dB	22/0.3	18.5/0.35	14.5/0.5	11.5/0.75
Coupling Ratio	%	20/80	30/70	40/60	50/50
Max. Insertion Loss	dB	8.0/1.5	6.0/2.0	4.8/2.8	3.6/3.6
Max. PDL	dB	0.2			
Max. Excess Loss	dB	0.3			
Thermal Stability	dB/°C	$\leq 0.005$			
Min. Return Loss	dB	50			
Min. Directivity	dB	50			
Max. Average Optical Power	W	10			
Max. Peak Power for ns Pulse	kW	10			
Fiber Type	-	Nufern, FUD-3584, LMA-GSF, 10/125, 0.075			
Operating Temperature	°C	- 40 to + 75			
Storage Temperature	°C	- 40 to + 85			

<sup>1</sup>IL is 0.5 dB higher, RL is 5 dB lower for each connector added.

### Package Dimensions



### Ordering Information

SMC-①-②②②②-③③-④-⑤-⑥-⑦

①: Configuration

②②②②: Wavelength

③③: Coupling Ratio

④: Connector Type

1 - 1 x 2

1064 - 1064 nm

01 - 01/99    30 - 30/70

1 - FC/UPC    4 - SC/APC

2 - 2 x 2

02 - 02/98    40 - 40/60

2 - FC/APC    N - None

05 - 05/95    50 - 50/50

3 - SC/UPC    S - Specify

10 - 10/90    SS - Specify

20 - 20/80

⑤: Fiber Jacket

⑥: Fiber Length

⑦: Fiber Type

B - 250 μm Bare Fiber

1 - 1.0 m

8 - Nufern FUD-3584

L - 900 μm Loose Tube

S - Specify