



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

Rev 11B

Description

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

Key Features

- Excellent Environmental Stability
- Low Insertion Loss

Applications

- Optical Communication Systems
- Fiber Sensing

Specifications

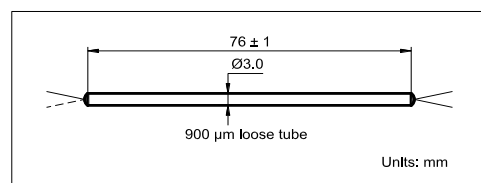
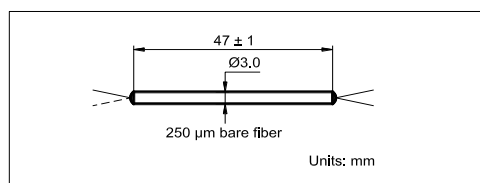
Parameter	Unit	Value			
Center Wavelength (λ_c)	nm	1064			
Operating Wavelength	nm	$\lambda_c \pm 10$			
Coupling Ratio	%	01/99	02/98	05/95	10/90
Max. Insertion Loss ¹	dB	22/0.3	18.5/0.35	14.5/0.5	11.5/0.75
Coupling Ratio	%	20/80	30/70	40/60	50/50
Max. Insertion Loss ¹	dB	8.0/1.5	6.0/2.0	4.8/2.8	3.6/3.6
Max. Polarization Dependent Loss	dB	0.2			
Max. Excess Loss	dB	0.3			
Thermal Stability	dB/°C	≤ 0.005			
Min. Return Loss ²	dB	50			
Min. Directivity	dB	50			
Max. Average Optical Power ³	W	10			
Max. Peak Power for ns Pulse	kW	10			
Fiber Type	-	Nufern, FUD-3584, LMA-GSF, 10/125, 0.075 NA			
Operating Temperature	°C	- 40 to + 75			
Storage Temperature	°C	- 40 to + 85			

¹IL is 0.5 dB higher for each connector added.

²RL is 5 dB lower for connector added.

³The Optical Power is 1 W only for connector added.

Package Dimensions



Ordering Information

SMC-①-②②②②-③③-④-⑤-⑥-⑦

①: Configuration

1 - 1 × 2

2 - 2 × 2

②②②②: Wavelength

1064 - 1064 nm

③③: Coupling Ratio

01 - 01/99 30 - 30/70

02 - 02/98 40 - 40/60

05 - 05/95 50 - 50/50

10 - 10/90 SS - Specify

20 - 20/80

④: Connector Type

1 - FC/UPC N - None

2 - FC/APC S - Specify

3 - SC/UPC

4 - SC/APC

⑤: Fiber Jacket

B - 250 μm Bare Fiber

L - 900 μm Loose Tube

⑥: Fiber Length

1 - 1.0 m

S - Specify

⑦: Fiber Type

8 - Nufern FUD-3584 Fiber