Singlemode Dual Window Wavelength Flattened Coupler (SDC Series)

Rev 11

Description

The Singlemode Dual Window Wavelength Flattened Coupler offers very low insertion loss, low polarization dependent loss and excellent environmental stability. This coupler series offers accurate coupling ratios from 1/99 to 50/50 and is available with very good uniformity in a wide wavelength range of both 1310 nm and 1550 nm windows. These components find extensive applications to perform power splitting and mornitoring functions in all kinds of optical communication systems.

Key Features

- Low Polarization Dependent Loss
- Low Insertion Loss
- Excellent Enviromental Stability

Applications

- Optical Communication Systems
- Fiber Sensing

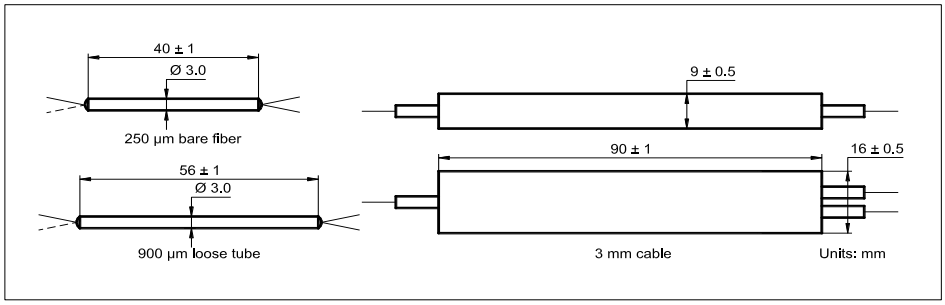
Specifications

Parameter	Unit	Value				
Center Wavelength (λc)	nm	1310 and 1550 or specify				
Operating Wavelength	nm	λc ± 40				
Coupling Ratio	%	01/99	02/98	03/97	05/95	10/90
Max. Insertion Loss[1]	dB	22/0.19	19/0.25	17.5/0.3	14.5/0.4	11/0.75
Coupling Ratio	%	20/80	30/70	40/60	50/50	
Max. Insertion Loss[1]	dB	7.8/1.3	5.9/1.9	4.6/2.7	3.5/3.5	
Max. Polarization Dependent Loss	dB	0.10				
Thermal Stability	dB/℃	≤ 0.002 over - 5 to + 70 ℃				
Min. Return Loss[2]	dB	50				
Directivity 1 × 2	dB	55				
2 × 2	dB	60				
Max. Optical Power (Continuous Wave)	mW	300				
Fiber Type	-	SMF-28 Fiber				
Operating Temperature	℃	- 5 to + 70				
Storage Temperature	℃	- 40 to + 85				

[1]IL is 0.3 dB higher for each connector added.

[2]RL is 5 dB lower for connector added.

Package Dimensions



Ordering Information

SDC-①-②②-③③-④-⑤-⑥

①: Configuration

1 - 1 × 2

2 - 2 × 2

②②: Wavelength

3155 - 1310, 1550 nm

SS - Specify

③③: Coupling Ratio

01 - 01/99

02 - 02/98

03 - 03/97

05 - 05/95

10 - 10/90

20 - 20/80

30 - 30/70

40 - 40/60

50 - 50/50

SS - Specify

④: Connetor Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

⑤: Fiber Type

B - 250 μm Bare Fiber

L - 900 μm Loose Tube

3 - 3 mm Cable

S - Specify

⑥: Fiber Length

1 - 1.0 m

S - Specify