



Polarization Maintaining Fused Coupler (High Reliability) (PMC Series)

Key Features

- Low Excess Loss
- High Reliability

Applications

- Space
- Vacuum Application

Specifications

Parameter	Unit	Value					
Center Wavelength (λ_c)	nm	1550					
Operating Wavelength	nm	$\lambda_c \pm 20$					
Coupling Ratio	%	0.1/99.9	01/99	02/98	05/95	10/90	
Max. Insertion Loss	dB	$30 \pm 3/0.22$	21.8/0.26	18.5/0.31	13.9/0.45	10.7/0.71	
Coupling Ratio	%	20/80	30/70	40/60	50/50		
Max. Insertion Loss	dB	7.7/1.3	5.8/1.9	4.5/2.6	3.5/3.5		
Max. Excess Loss	dB	0.20					
Min. ER ¹	dB	20					
Max. Excess Loss for Each Connector	dB	0.3					
Max. Optical Power (Continuous Wave)	W	10					
Thermal Stability	dB/°C	≤ 0.005					
Min. Return Loss	dB	50					
Min. Directivity	dB	50					
Fiber Type for Signal Port		PM1550 Panda Fiber					
Fiber Type for Tap Port		PM fiber or Singlemode Fiber					
Operating Temperature	°C	- 20 to + 70					
Storage Temperature	°C	- 40 to + 85					

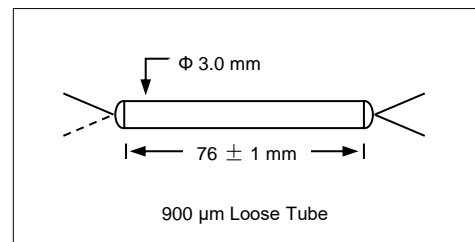
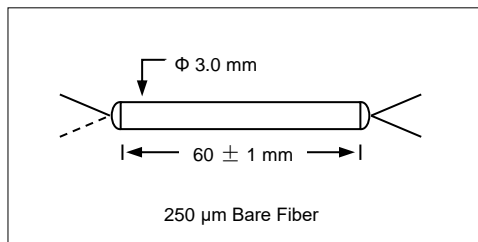
¹ER data listed in the table are for the ports with coupling ratio greater than 10%. It will be 2 dB lower for a tap port with coupling ratio between 1 - 10%. For 1% tap port, ER is not considered.

²IL is 0.3dB higher, RL is 5 dB lower, ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

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

⁴Data tested at central wavelength only.

Package Dimensions



Ordering Information

PMC -①-②②②②-③③-④-⑤-⑥-⑦-⑧-**SPA**

①: Configuration

1 - 1 x 2

2 - 2 x 2

②②②②: Wavelength

1550 - 1550 nm

③③: Coupling Ratio

0.1 - 0.1/99.9 20 - 20/80

01 - 01/99 30 - 30/70

02 - 02/98 40 - 40/60

05 - 05/95 50 - 50/50

10 - 10/90 S - Specify

④: Fiber Type for Tap Port

P - PM Fiber

S - Singlemode Fiber

⑤: Connector Type

1 - FC/UPC 4 - SC/APC

2 - FC/APC N - None

3 - SC/UPC S - Specify

⑥: Fiber Jacket

B - 250 μ m Bare Fiber

L - 900 μ m Loose Tube

⑦: Fiber Length

Q - 0.75 m

1 - 1 m

S - Specify

⑧: Fiber Type

6 - Corning Panda PM 1550