



# Polarization Maintaining Single Fiber Collimator (PMC Series)

Rev 11

## Description

The PM Fiber Collimator is the basic element for in-line PM fiber optics components, such as PM isolator and PM FWM. This PM Single Fiber Collimator has high extinction ratio, low insertion loss and high return loss. The unique processing and high quality AR coating also enable this collimator to handle high power.

## Key Features

- High Extinction Ratio
- Low Insertion Loss

## Applications

- Fiber Sensing
- Fiber Coupling

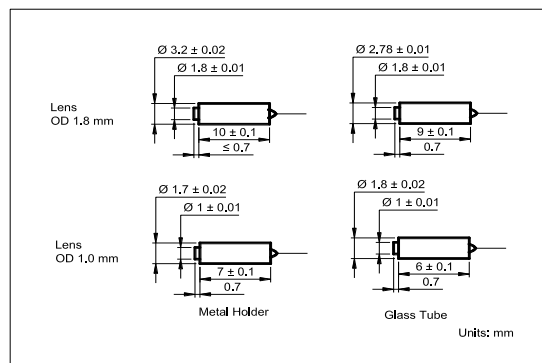
## Specifications

Parameter	Unit	Value
Center Wavelength ( $\lambda_c$ )	nm	1310, 1550 or specify
Operating Wavelength Range	nm	$\lambda_c \pm 30$
Working Distance	mm	5 or specify
Typ. Insertion Loss	dB	0.20
Max. Insertion Loss	dB	0.25
Typ. Extinction Ratio	dB	25
Min. Extinction Ratio	dB	23
Min. Return Loss	dB	60
Max. Optical Power (Continuous Wave)	mW	300
Max. Tensile Load	N	5
Fiber Type	-	PM Panda Fiber or specify
Operating Temperature	°C	- 5 to + 70
Storage Temperature	°C	- 40 to + 85

<sup>1</sup>IL is 0.3 dB higher, UPC connector RL is 10 dB lower, APC connector RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

<sup>2</sup>All of above value are tested at room temperature @ 23 °C, unless other specified.

## Package Dimensions



## Ordering Information

PMC-①-②-③③-④-⑤-⑥-⑦-⑧-⑨-⑩

①: Lens Diameter	②: Pigtail Type	③③: Wavelength	④: Holder Type
1 - 1.8 mm	1 - Single Fiber Pigtail	31 - 1310 nm    SS - Specify	1 - Metal Holder
2 - 1.0 mm		55 - 1550 nm	2 - Glass Tube

⑤: Working Distance

1 - 5 mm

S - Specify

⑥: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

⑦: Fiber Type

B - 250  $\mu$ m Bare Fiber

D - 400  $\mu$ m Bare Fiber

L - 900  $\mu$ m Loose Tube

S - Specify

⑧: Slow Axis Orientation

O - For Single Fiber Collimator

⑨: Fiber Length

C - 1.5 m

S - Specify

⑩: Lens Type

G - Grin Lens

C - C Lens