



## Polarization Maintaining Fiber Collimator

I&Optics' polarization maintaining fiber collimator can collimate a divergent beam into 'parallel' beam and maintain the input linear polarization. It features high handling power, long working distance, excellent beam quality due to our unique technology. It can be used in lasers, telecom, free space communications, testing systems and R&D.

### Specification

| Parameter                   | Test Condition                                 | Unit | Value                        |
|-----------------------------|------------------------------------------------|------|------------------------------|
| Nominal Center Wavelength   | -                                              | nm   | 1310 , 1450, 1550 or Specify |
| Wavelength Range            | -                                              | nm   | +/-40                        |
| Min. Transmission Ratio     | at Center Wavelength                           | %    | 97, Typ. 99                  |
| Max. Pair Insertion Loss    | at Center Wavelength                           | dB   | 0.25, Typ. 0.20              |
| Nominal Beam Diameter       | at Beam Waist<br>(1/e <sup>2</sup> ),1550nm    | mm   | 0.36, 0.45 or Specify        |
| Max. Beam Pointing Accuracy | with Respect to Body                           | rad  | 0.02                         |
| Min. Extinction Ratio       | at 25°C, Input to Output,<br>only for PM Fiber | dB   | 23, Typ. 25                  |
| Min. Return Loss            | at Center Wavelength                           | dB   | 55                           |
| Max. Power Handling Rate    | Continuous Wave                                | W    | 0.5, 1, 3, 5 or Specify      |
| Fiber Type                  | -                                              | -    | PM Panda Fiber or Specify    |
| Max. Fiber Tensile Load     | -                                              | N    | 5                            |
| Operating Temperature       | -                                              | °C   | -5 to 70                     |
| Storage Temperature         | -                                              | °C   | -40 to 85                    |

Above values are for device without connectors. For device with connector, IL will be 0.3dB higher, return loss will 5dB lower and handling power is not higher than 1W.

The default alignment of working polarization and connector key are aligned to slow axis of fiber.

### Package Dimensions

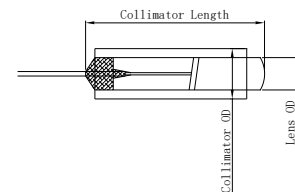
Type G1: OD 2.78 x 10.0mm, C-Lens Diameter 1.8mm, Glass Tube

Type G2: OD 3.2 x 10.0mm, C-Lens Diameter 1.8mm, Glass Tube

Type G3: OD 1.8 x 9.0mm, C-Lens Diameter 1.0mm, Glass Tube

Type M1: OD 3.2 x 10.0mm, C-Lens Diameter 1.8mm, Gold Plated Metal Tube

Detailed Informations and Dimensions Please Contact Us. Customized Design Is Available Upon Request.



### Ordering Informations

PMC-①-②-③-④-⑤-⑥-⑦-⑧

① - Center Wavelength

31 - 1310nm

55 - 1550nm

SS - Specify

③ - Beam Diameter

36 - 0.36mm

45 - 0.45mm

⑤ - Fiber Type

8 - PM 1310 Panda Fiber

9 - PM 1550 Panda Fiber

A - PM 14xx Panda Fiber

⑦ - Fiber Jacket

B - Bare Fiber

L - 900um Loose Tube

② - Body Type

G1 - Type G1

G2 - Type G2

G3 - Type G3

M1 - Type M1

④ - Power Rate

H - 0.5W

1 - 1W

3 - 3W

5 - 5W

⑥ - Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - No Connector

⑧ - Fiber Length

1.1 - 1.1m