



# High Power Single Fiber Collimator (HPC Series)

Rev 11C

## Description

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

## Key Features

- High Power Handling
- Low Insertion Loss

## Applications

- Fiber Laser
- Beam Delivery

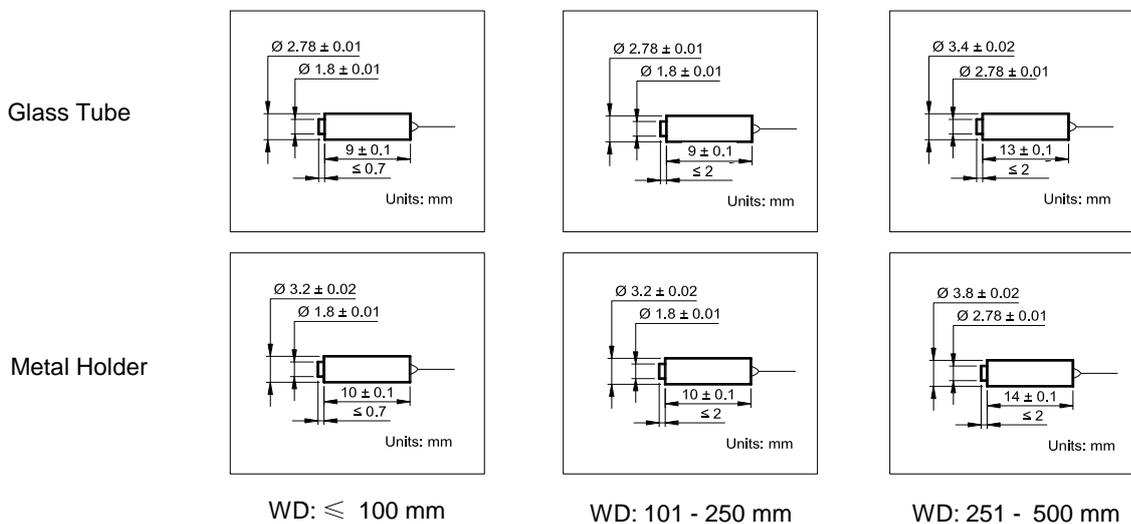
## Specifications

| Parameter                         | Unit | Value              |          |           |           |
|-----------------------------------|------|--------------------|----------|-----------|-----------|
| Center Wavelength ( $\lambda_c$ ) | nm   | 1310, 1550         |          |           |           |
| Operating Wavelength Range        | nm   | $\lambda_c \pm 30$ |          |           |           |
| Working Distance                  | mm   | 5 - 50             | 51 - 100 | 101 - 250 | 251 - 500 |
| Typ. Insertion Loss               | dB   | 0.3                | 0.35     | 0.4       | 0.6       |
| Max. Insertion Loss               | dB   | 0.4                | 0.45     | 0.5       | 0.7       |
| Nominal Beam Diameter             | mm   | ~ 0.45             | ~ 0.45   | ~ 0.75    | ~ 0.95    |
| Min. Return Loss                  | dB   | 55                 |          |           |           |
| Max. Optical Power                | W    | 5, 10              |          |           |           |
| Max. Tensile Load                 | N    | 5                  |          |           |           |
| Fiber Type                        | -    | SMF-28 Fiber       |          |           |           |
| Operating Temperature             | °C   | - 5 to +70         |          |           |           |
| Storage Temperature               | °C   | - 40 to + 85       |          |           |           |

<sup>1</sup>IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

<sup>2</sup>Maximum optical power handling will be 1 W only for connector added.

## Package Dimensions



## Ordering Information

HPC-①-②-③③-④-⑤-⑥-⑦-⑧-⑨-⑩

①: Lens Diameter

1 - 1.8 mm  
3 - 2.78 mm

②: Pigtail Type

1 - Single Fiber Pigtail

③③: Wavelength

31 - 1310 nm  
55 - 1550 nm  
48 - 1480 nm

④: Holder Type

1 - Metal Holder  
2 - Glass Tube

⑤: Working Distance

5 - 5 mm  
S - Specify

⑥: Connector Type

1 - FC/UPC  
2 - FC/APC  
3 - SC/UPC  
4 - SC/APC  
N - None

⑦: Fiber Jacket

B - 250  $\mu$ m Bare Fiber  
L - 900  $\mu$ m Loose Tube  
S - Specify

⑧: Fiber Length

C - 1.5 m  
S - Specify

⑨: Lens Type

C - C Lens

⑩: Optical Power

5 - 5 W  
10 - 10 W  
S - Specify