



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

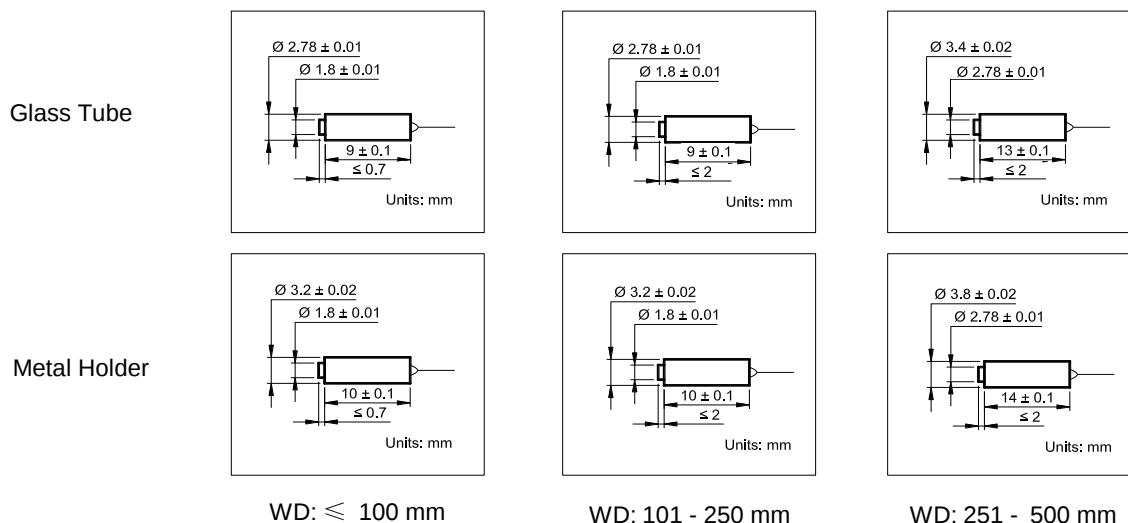
Specifications

Parameter	Unit	Value			
Center Wavelength (λ_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			

¹IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

²Maximum 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 μ m Bare Fiber

L - 900 μ 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