

## Polarization Maintaining (PM) Fiber Collimator



### FEATURES

- ✓ Low Insertion Loss
- ✓ High Extinction Ratio (ER)
- ✓ High Return Loss
- ✓ GR-1221-Core Compliant

### APPLICATIONS

- Fiber-Optic Collimation and Focusing
- Essential Elements for PM Optical Devices
- Optical Communications Systems
- Other PM Fiber Optical Applications

### Specifications of Polarization Maintaining (PM) Fiber Collimator

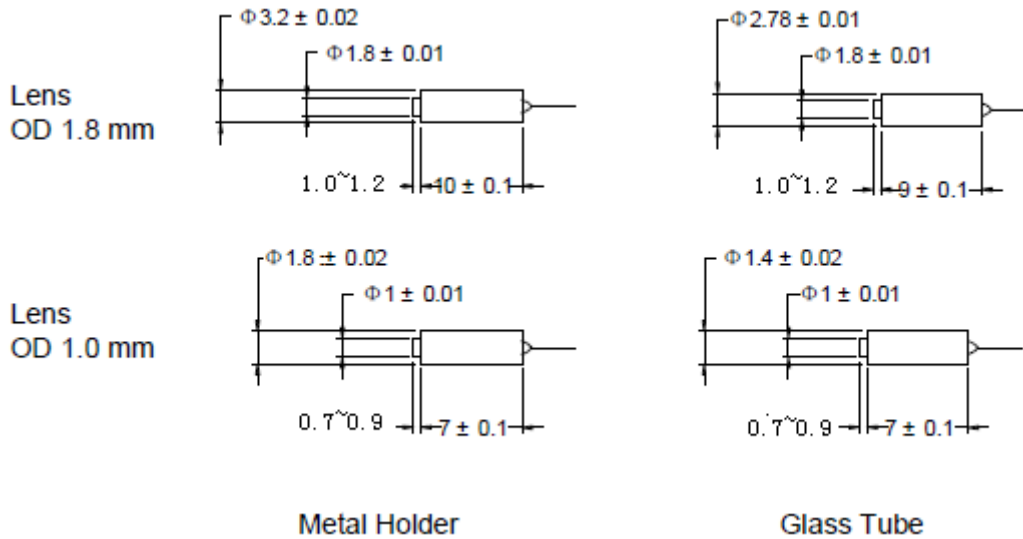
Center Wavelength (nm)	450, 460	630, 632, 650	780	850	980	1064	1310, 1550	2000
Operating Wavelength Range (nm)	±20	±20	±20	±20	±20	±30	±50	±30
Insertion Loss (dB)	≤1.0	≤0.8	≤0.4	≤0.35	≤0.3	≤0.3	≤0.25	≤0.5
Extinction Ratio (dB)	≥20, ≥25, ≥30, ≥35							
Working Distance (mm)	5, 10, 20; Others upon request							
Fiber Type	Panda PM Fibers							
Return Loss (dB)	≥55 (UPC), ≥60 (APC)							
Operating Temperature (°C)	-5 to +70; Others upon request							
Storage Temperature (°C)	-40 to +85							
Package Dimensions (mm)	Φ3.20*L10 (metal housing, Φ1.8mm lens) Φ2.78*L9 (glass housing, Φ1.8mm lens) Φ1.80*L7 (metal housing, Φ1.0mm lens) Φ1.40*L7 (glass housing, Φ1.0mm lens)							

#### Note:

1. For polarization maintaining (PM) fiber collimator with connector, IL is 0.3 dB higher, RL is 5.0 dB lower, and ER will be 2.0 dB lower.
2. Insertion loss is measured through a PM optical collimator pair.
3. Unless otherwise specified, the slow axis of the PM fiber is aligned with the key of the connector.
4. Please specify the operating wavelength, working distance, extinction ratio requirements, housing type (package dimensions), fiber length, connector type, etc. in the orders. (See the ordering information section.)
5. This PM fiber collimator is customizable, and the above specifications are subject to change without notice.



## Package Dimensions



### Ordering Information for Polarization Maintaining (PM) Fiber Collimator

Wavelength	Working Distance	Extinction Ratio	Package Dimensions	Fiber Pigtail	Fiber Length	Connector
450 nm	5 mm	$\geq 20$	$\Phi 3.20 \times L10$ mm (metal)	$\Phi 250 \mu\text{m}$ bare fiber (without jacket)	0.5 m	None
460 nm	10 mm	$\geq 25$	$\Phi 2.78 \times L9$ mm (glass)	$\Phi 900 \mu\text{m}$ loose tube	0.8 m	FC/UPC
630 nm	20 mm	$\geq 30$	$\Phi 1.80 \times L7$ mm (metal)	$\Phi 2.0$ mm cable	1.0 m	FC/APC
632 nm	Others	$\geq 35$	$\Phi 1.40 \times L7$ mm (glass)		1.5 m	SC/UPC
650 nm					2.0 m	SC/APC
780 nm					Others	LC/UPC
850 nm						LC/APC
980 nm						Others
1064 nm						
1310 nm						
1550 nm						
2000 nm						