

Single-Mode Fiber Optical Collimator



FEATURES

- ✓ Low Insertion Loss
- ✓ High Return Loss
- ✓ No Epoxy In the Optical Path
- ✓ GR-1221-Core Compliant

APPLICATIONS

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

Specifications of Single-Mode Fiber Optical Collimator

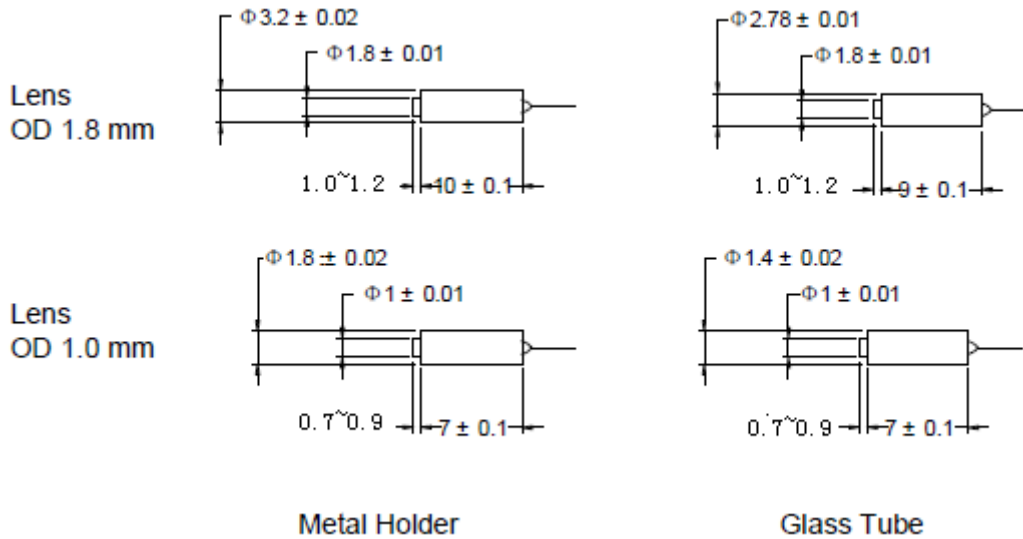
Center Wavelength (nm)	450, 460	630, 632, 650	780	850	980	1064	1310, 1550	2000
Operating Wavelength Range (nm)	±20	±20	±20	±20	±20	±30	±50	±30
Insertion Loss (dB)	≤1.0	≤0.8	≤0.4	≤0.35	≤0.3	≤0.3	≤0.25	≤0.5
Working Distance (mm)	5, 10, 20; Others upon request							
Fiber Type	Single-mode fibers							
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 a fiber collimator with connector, IL is 0.3 dB higher, RL is 5.0 dB lower.
2. Insertion loss is measured through a fiber collimator pair.
3. Please specify the operating wavelength, working distance, housing type (package dimensions), fiber length, connector type, etc. in the orders. (See the ordering information section.)
4. This single-mode fiber optical collimator is customizable, and the above specifications are subject to change without notice.



Package Dimensions



Ordering Information for Single-Mode Fiber Optical Collimator					
Wavelength	Working Distance	Package Dimensions	Fiber Pigtail	Fiber Length	Connector
450 nm	5 mm	$\Phi 3.20 \times L10$ mm (metal)	$\Phi 250 \mu\text{m}$ bare fiber (without jacket)	0.5 m	None
460 nm	10 mm	$\Phi 2.78 \times L9$ mm (glass)	$\Phi 900 \mu\text{m}$ loose tube	0.8 m	FC/UPC
630 nm	20 mm	$\Phi 1.80 \times L7$ mm (metal)	$\Phi 2.0$ mm cable	1.0 m	FC/APC
632 nm	Others	$\Phi 1.40 \times L7$ 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					