

1064nm long-distance collimating lens



- **Product Description**

The 1064nm Long-Distance Collimating Lens is designed to collimate and shape the output from optical fibers, providing diffraction-limited performance for lasers emitted through various fiber connections at the designed wavelength. The collimation distance can reach up to 200 meters.

This series of collimating lenses has a compact structure that is not affected



by misalignment. The design incorporates aberration correction and uses an air-spaced double-lens configuration, ensuring excellent collimation results. The effective focal length of the double-lens is wavelength-dependent, so it is recommended to use this series of collimating lenses at the designed wavelength for optimal performance.

- **Product features**

Fiber Collimator with FC/APC, FC/PC, or SMA905 Connectors、 Can be used for wavelengths from 405 nm to 1.55 μ m. 、 Simplified coupling of free-space laser to optical fiber、 Double-lens design, aberration correction performance、 Non-magnetic stainless steel housing

- **Part Number**

MP-CLM-1064-15.2-0.09-S

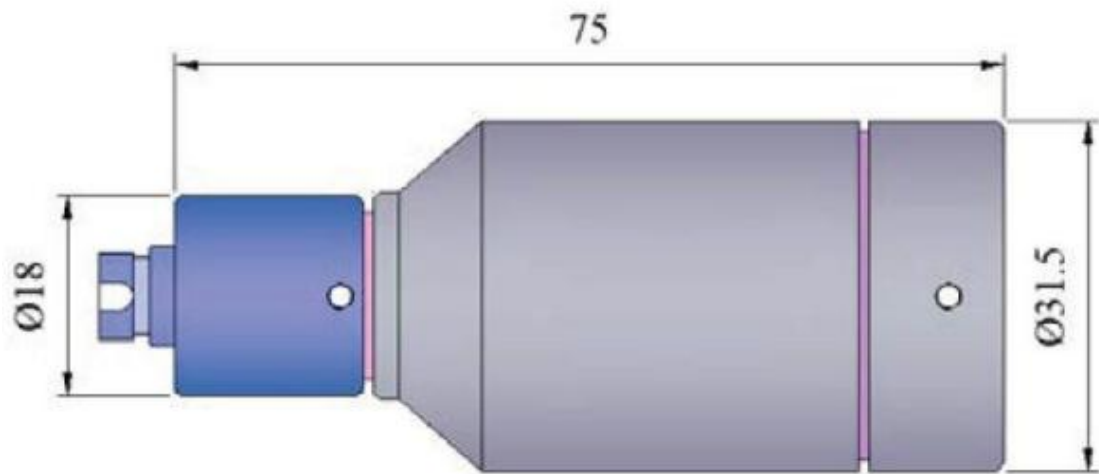
- **Application area**

Free-space optical communication | LiDAR | Natural gas detection | Remote sensing | Aerospace

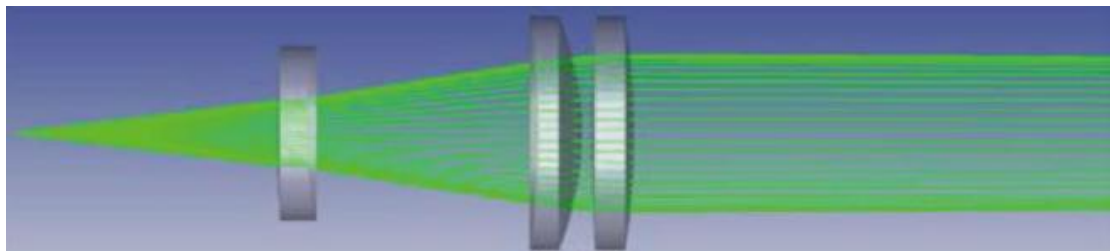
- **Core parameters**

Center Wavelength	Beam Waist Diameter	Effective Focal Length
1064nm	15.2mm	74.5mm

- **Dimension Drawing**



- **General Parameters**



Beam waist spot diameter: Taken at the $1/e^2$ point of the Gaussian beam, calculated using the theoretical value for single-mode fiber at each wavelength.

Far-field divergence angle of the beam: The input uses single-mode fiber for each wavelength, with the divergence angle calculated according to the theoretical value of a Gaussian beam at the $1/e^2$ point.

Tolerance: + 0.01° / 0.0°



Technical Parameters

Central Wavelength	Bandwidth	Beam Waist Diameter (at 1/e ²)	Beam Divergence Angle (Far Field)	Effective Focal Length	Numerical Aperture (Lens)	Fiber Type	Transmittance
405nm	±30nm	10.2mm	0.09mrad	66.5m	0.19	405HP	>92%
450nm	±30nm	13.7mm	0.07mrad	68.4m	0.18	405HP	>92%
520nm	±30nm	14.2mm	0.06mrad	70.3m	0.18	460HP	>92%
635nm	±30nm	14.5mm	0.07mrad	72.1m	0.17	630HP	>92%
780nm	±30nm	14.2mm	0.07mrad	73.3m	0.17	780HP	>92%
850nm	±30nm	14.9mm	0.07mrad	73.7m	0.17	780HP	>92%
905nm	±30nm	14.9mm	0.07mrad	73.9m	0.17	980HP	>92%
980nm	±30nm	15.0mm	0.09mrad	74.2m	0.17	980HP	>92%



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1064nm	±30nm	15.2mm	0.09mrad	74.5m	0.17	980HP	>92%
				m			
1310nm	±30nm	12.9mm	0.12mrad	75.1m	0.17	SMF-28	>92%
				m		e	
1550nm	±30nm	14.2mm	0.14mrad	75.6m	0.17	SMF-28	>92%
				m		e	
1650nm	±30nm	14.5mm	0.14mrad	76.0m	0.17	SMF-28	>92%
				m		e	