

Single mode optical fiber achromatic collimator 405nm (beam waist spot diameter 0.97mm)



- **Product Description**

Composed of a large numerical aperture lens system, it can use multimode optical fibers with larger numerical apertures. The beam emitted from the multimode fiber can be shaped, or the spatial plane beam can be coupled into the multimode fiber to achieve good collimation and spot shape over long distances.

- **Product features**

Achromatic design optimization; multimode fiber compatibility; enhanced thermal stability design; precise waist spot control; high power and reliability

- **Part Number**

MP-CLM-405-0.97-0.062-SP

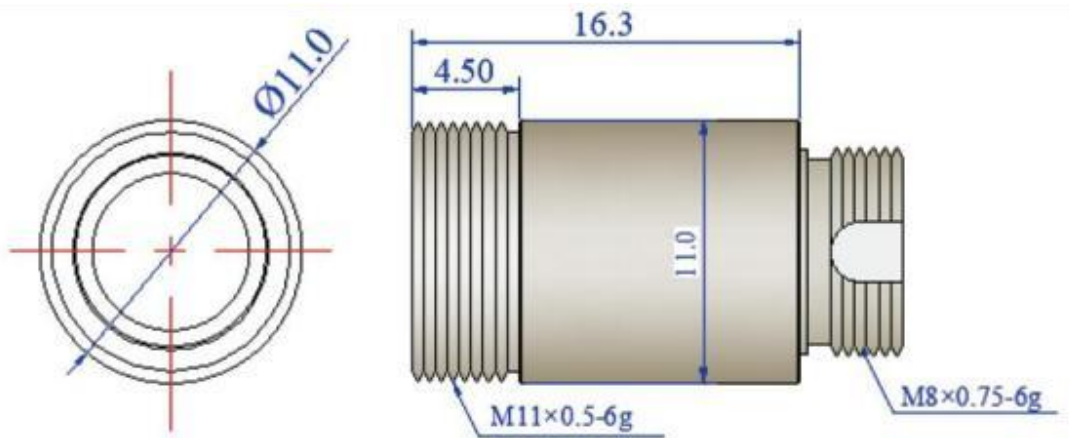
- **Application area**

Optical Network Testing | Industrial Sensing | Medical Endoscopy | Security
Surveillance | Fiber Optic Component Inspection

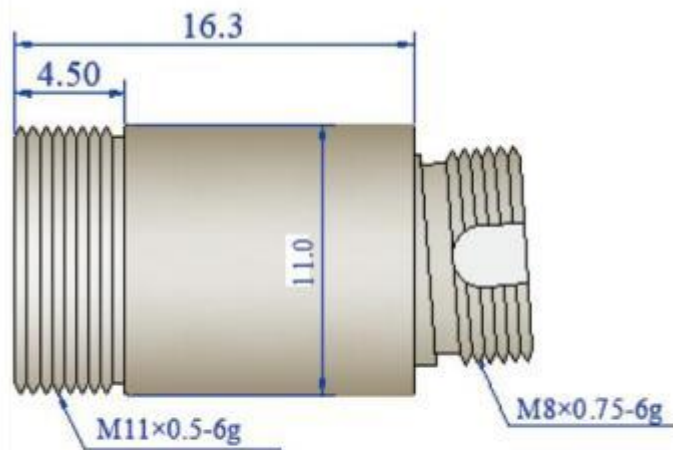
- **Core parameters**

Center wavelength	Operating Bandwidth	Waist Beam	Connectors
405nm	±30nm	0.97mm	FC/PC

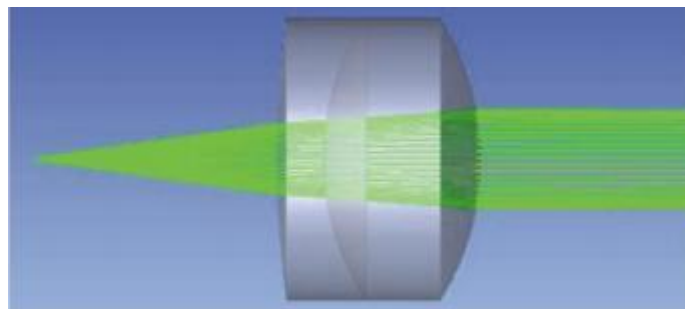
- **General Parameters**

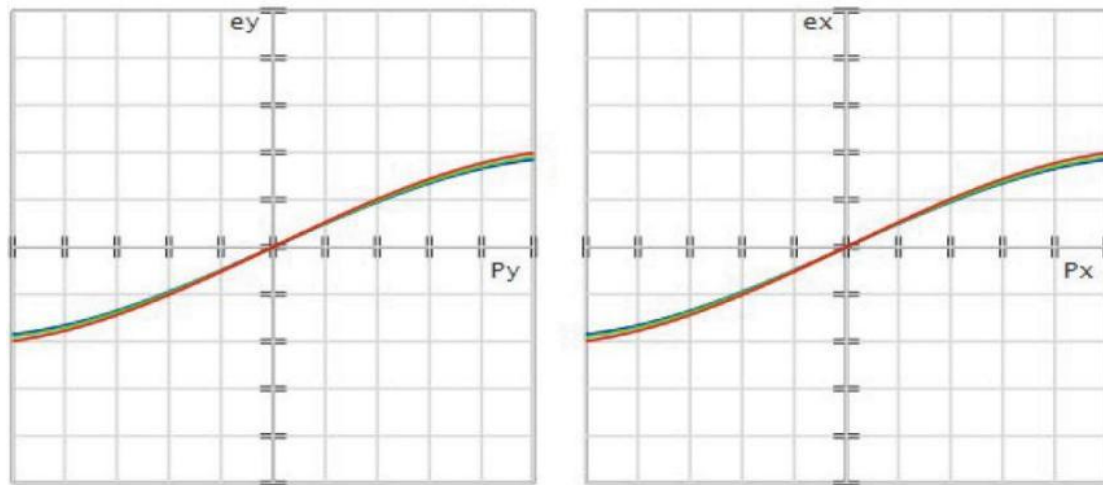


A Type



B Type





phasic variation curve with wavelength

Wavelength	Band width	Waist Beam	Divergence Angle	EFL	NA	Package Dia.	Fiber Type	Max. Power	Transmittance
405nm	± 30nm	0.97 mm	0.062+0.01°	4.06 mm	0.61	Φ 11mm	405 HP	2W/mm ² @Beam Size	>95%
	± 30nm	2.0 mm	0.03+0.01°	10.05 mm	0.37	Φ 11mm			

	± 30nm	3.7 mm	0.021+ 0.01°	15.96 mm	0. 25	Φ 11m m			
	± 30nm	3.95 mm	0.015+ 0.01°	19.95 mm	0. 2	Φ 11m m			
450nm	± 30nm	0.96 mm	0.06+0 .01°	4.10 mm	0. 6	Φ 11m m	460 HP		
	± 30nm	2.0 mm	0.028+ 0.01°	10.07 mm	0. 37	Φ 11m m			
	± 30nm	3.6 mm	0.020+ 0.01°	15.98 mm	0. 25	Φ 11m m			
	± 30nm	3.95 mm	0.014+ 0.01°	19.96 mm	0. 2	Φ 11m m			

520nm	± 30nm	0.92 mm	0.059+ 0.01°	4.15 mm	0. 6	Φ 11m m			
	± 30nm	2.0 mm	0.025+ 0.01°	10.09 mm	0. 37	Φ 11m m			
	± 30nm	3.2 mm	0.019+ 0.01°	15.98 mm	0. 25	Φ 11m m			
	± 30nm	3.95 mm	0.014+ 0.01°	19.97 mm	0. 2	Φ 11m m			
635nm	± 30nm	0.87 mm	0.056+ 0.01°	4.20 mm	0. 58	Φ 11m m	630 HP		
	± 30nm	2.0 mm	0.024+ 0.01°	10.13 mm	0. 37	Φ 11m m			

	± 30nm	3.12 mm	0.019+ 0.01°	16.01 mm	0. 25	Φ 11m m			
	± 30nm	3.95 mm	0.014+ 0.01°	20m m	0. 2	Φ 11m m			
780nm	± 30nm	1.95 mm	0.031+ 0.01°	10.04 mm	0. 37	Φ 11m m	780 HP		
	± 30nm	3.49 mm	0.020+ 0.01°	16.0 mm	0. 24	Φ 11m m			
	± 30nm	4.4 mm	0.015+ 0.01°	20.03 mm	0. 2	Φ 11m m			
850nm	± 30nm	2.0 mm	0.030+ 0.01°	10.05 mm	0. 37	Φ 11m m			

	± 30nm	3.47 mm	0.020+ 0.01°	16.01 mm	0. 24	Φ 11mm			
	± 30nm	3.95 mm	0.016+ 0.01°	20.03 mm	0. 2	Φ 11mm			

Wavelength	Bandwidth	Waist Beam	Divergence Angle	EFL	NA	Package Dia.	Fiber Type	Max. Power	Transmittance
980nm	600~1050nm	2.0mm	0.035+ 0.01°	10.0 7mm	0. 37	Φ 11mm	980HP	2W/mm² @Beam Size	>95%
	600~1050nm	3.39mm	0.024+ 0.01°	16.0 3mm	0. 24	Φ 11mm			

	600~10 50nm	4.23 mm	0.018+ 0.01°	20.0 5mm	0. 2	Φ 11m m			
1064n m	1050~1 700nm	2.0 mm	0.038+ 0.01°	10.0 3mm	0. 37	Φ 11m m	HI10 60		
	1050~1 700nm	3.51 mm	0.032+ 0.01°	15.9 7mm	0. 24	Φ 11m m			
	1050~1 700nm	3.9 mm	0.026+ 0.01°	19.9 7mm	0. 2	Φ 11m m			
1310n m	1050~1 700nm	2.0 mm	0.053+ 0.01°	10.0 7mm	0. 37	Φ 11m m	SMF -28E		
	1050~1 700nm	2.91 mm	0.036+ 0.01°	16.0 1mm	0. 24	Φ 11m m			

	1050~1 700nm	3.62 mm	0.028+ 0.01°	20.0 mm	0. 2	Φ 11m m			
1550n m	1050~1 700nm	2.0 mm	0.06+0 .01°	10.1 1mm	0. 37	Φ 11m m			
	1050~1 700nm	3.14 mm	0.039+ 0.01°	16.0 8mm	0. 24	Φ 11m m			
	1050~1 700nm	3.55 mm	0.031+ 0.01°	20.0 7mm	0. 2	Φ 11m m			
1654n m	1050~1 700nm	2.0 mm	0.06+0 .01°	10.1 4mm	0. 37	Φ 11m m			
	1050~1 700nm	3.2 mm	0.036+ 0.01°	16.1 5mm	0. 24	Φ 11m m			

	1050~1	3.65	0.029+	20.1	0.	Φ			
	700nm	mm	0.01°	2mm	2	11m			
						m			

3D modeling drawing preview

