



1650nm Aspheric Collimator



- **Product Description**

The aberration-free design has good collimation of the light beam, good wavefront performance, Gaussian distribution of light energy under the full optical path, and the light beam deflection angle is $<0.5^\circ$. The aspheric lens is coated with anti-reflection film on both sides to minimize surface reflection. The aspheric lens will produce chromatic aberration and is sensitive to wavelength change

- **Product features**

Aberration-free design, high collimation; excellent beam quality; high transmittance

- **Part Number**

MP-CLM-1650-2.15-0.058-SA

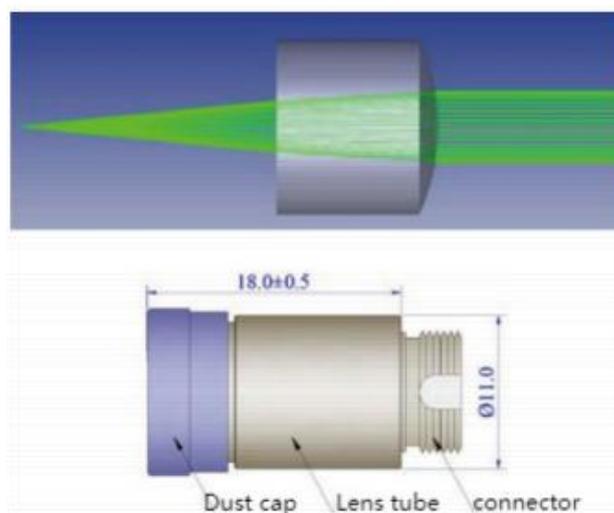
- **Application area**

Free-space optical communication | Fiber optic sensing and gas detection |
 LiDAR (Light Detection and Ranging) | Scientific experiments and optical testing

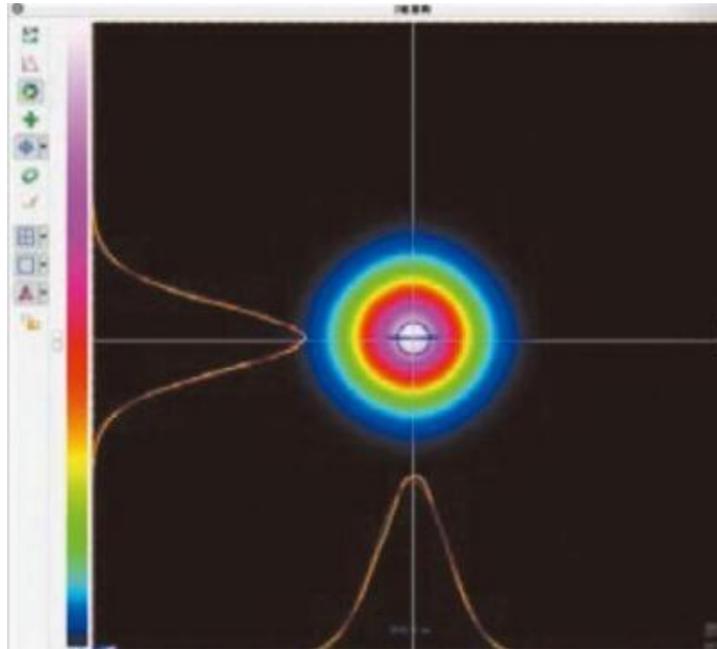
- **Core parameters**

Center Wavelength	Bandwidth	Outlet Spot
1650nm	$\pm 5\text{nm}$	2.15mm

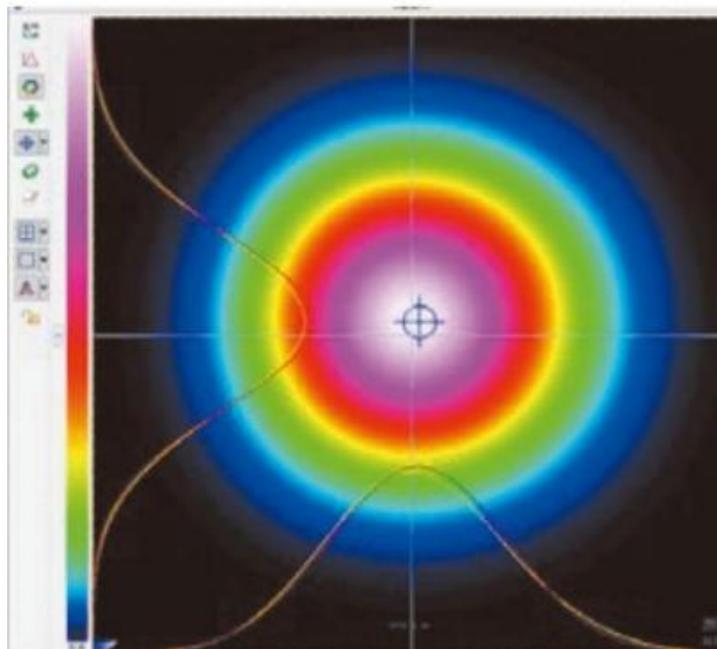
- **Dimension Drawing**



- **General Parameters**



Aspheric collimator exit spot



Aspheric collimator 5M spot



Parameters

Wavelength	Bandwidth	Export Beam Size	Divergence Angle	EFL	NA	Package Dia.	SM Fiber Type	Transmittance
405 nm	±5nm	0.8mm	0.06°+0.01°	4.45mm	0.25	Φ11mm	405 HP	>95%
	±5nm	0.89mm	0.03°+0.01°	6.02mm	0.41	Φ11mm		
	±5nm	1.13mm	0.03°+0.01°	7.70mm	0.51	Φ12mm		
	±5nm	2.2mm	0.02°+0.01°	10.67mm	0.26	Φ11mm		
	±5nm	2.17mm	0.01°+0.01°	14.71mm	0.17	Φ11mm		
	±5nm	2.61mm	0.01°+0.01°	17.71mm	0.16	Φ11mm		
	±5nm	3.39mm	0.01°+0.01°	23.00mm	0.17	Φ12mm		
450 nm	±5nm	0.82mm	0.05°+0.01°	4.50mm	0.25	Φ11mm	460 HP	
	±5nm	0.94mm	0.04°+0.01°	6.07mm	0.41	Φ11mm		
	±5nm	1.2mm	0.03°+0.01°	7.77mm	0.51	Φ12mm		
	±5nm	2.3mm	0.02°+0.01°	10.77mm	0.26	Φ11mm		
	±5nm	2.3mm	0.01°+0.01°	14.86mm	0.17	Φ11mm		
	±5nm	2.77mm	0.01°+0.01°	17.88mm	0.16	Φ11mm		
	±5nm	3.6mm	0.01°+0.01°	23.24mm	0.17	Φ12mm		
520 nm	±5nm	0.84mm	0.05°+0.01°	4.55mm	0.25	Φ11mm	HP	
	±5nm	1.07mm	0.04°+0.01°	6.13mm	0.41	Φ11mm		
	±5nm	1.37mm	0.03°+0.01°	7.86mm	0.51	Φ12mm		
	±5nm	2.3mm	0.02°+0.01°	10.89mm	0.25	Φ11mm		
	±5nm	2.62mm	0.015°+0.01°	15.01mm	0.16	Φ11mm		
	±5nm	3.15mm	0.01°+0.01°	18.07mm	0.15	Φ11mm		
	±5nm	4.09mm	0.01°+0.01°	23.49mm	0.17	Φ12mm		
633 nm	±5nm	0.86mm	0.05°+0.01°	4.59mm	0.24	Φ11mm	630	
	±5nm	1.25mm	0.04°+0.01°	6.19mm	0.4	Φ11mm	HP	



	±5nm	1.60mm	0.03°+0.01°	7.94mm	0.5	Φ12mm	
	±5nm	2.3mm	0.02°+0.01°	10.99mm	0.25	Φ11mm	
	±5nm	3.06mm	0.015°+0.01°	15.17mm	0.16	Φ11mm	
	±5nm	3.68mm	0.01°+0.01°	18.26mm	0.15	Φ11mm	
	±5nm	4.78mm	0.01°+0.01°	23.74mm	0.16	Φ12mm	
780 nm	±5nm	1.0mm	0.06°+0.01°	4.63mm	0.24	Φ11mm	780 HP
	±5nm	1.29mm	0.04°+0.01°	6.23mm	0.4	Φ11mm	
	±5nm	1.65mm	0.03°+0.01°	8.0mm	0.5	Φ12mm	
	±5nm	2.4mm	0.025°+0.01°	11.09mm	0.25	Φ11mm	
	±5nm	3.16mm	0.02°+0.01°	15.29mm	0.16	Φ11mm	
	±5nm	3.81mm	0.015°+0.01°	18.40mm	0.15	Φ11mm	
	±5nm	4.95mm	0.01°+0.01°	23.93mm	0.16	Φ12mm	
850 nm	±5nm	1.0mm	0.06°+0.01°	4.64mm	0.24	Φ11mm	780 HP
	±5nm	1.35mm	0.05°+0.01°	6.25mm	0.4	Φ11mm	
	±5nm	1.74mm	0.04°+0.01°	8.02mm	0.5	Φ12mm	
	±5nm	2.4mm	0.03°+0.01°	11.12mm	0.25	Φ11mm	
	±5nm	3.32mm	0.02°+0.01°	15.33mm	0.16	Φ11mm	
	±5nm	3.99mm	0.015°+0.01°	18.45mm	0.15	Φ11mm	
	±5nm	5.19mm	0.01°+0.01°	24.00mm	0.16	Φ12mm	
980 nm	±5nm	1.0mm	0.07°+0.01°	4.66mm	0.24	Φ11mm	HI1 060
	±5nm	1.45mm	0.05°+0.01°	6.27mm	0.4	Φ11mm	
	±5nm	1.86mm	0.04°+0.01°	8.05mm	0.5	Φ12mm	
	±5nm	2.3mm	0.03°+0.01°	11.16mm	0.25	Φ11mm	
	±5nm	3.56mm	0.02°+0.01°	15.39mm	0.16	Φ11mm	
	±5nm	4.28mm	0.02°+0.01°	18.53mm	0.15	Φ11mm	
	±5nm	5.57mm	0.01°+0.01°	24.10mm	0.16	Φ12mm	
106 4n m	±5nm	1.0mm	0.08°+0.01°	4.67mm	0.24	Φ11mm	
	±5nm	1.42mm	0.055°+0.01°	6.29mm	0.4	Φ11mm	
	±5nm	1.82mm	0.04°+0.01°	8.07mm	0.5	Φ12mm	



	±5nm	2.3mm	0.03°+0.01°	11.19mm	0.25	Φ11mm	
	±5nm	3.48mm	0.02°+0.01°	15.43mm	0.16	Φ11mm	
	±5nm	4.19mm	0.02°+0.01°	18.57mm	0.15	Φ11mm	
	±5nm	5.45mm	0.01°+0.01°	24.15mm	0.16	Φ12mm	
131 0n m	±5nm	0.84mm	0.11°+0.01°	4.70mm	0.24	Φ11mm	SM F-2 8e
	±5nm	1.10mm	0.09°+0.01°	6.32mm	0.4	Φ11mm	
	±5nm	1.41mm	0.07°+0.01°	8.12mm	0.49	Φ12mm	
	±5nm	2.1mm	0.05°+0.01°	11.26mm	0.25	Φ11mm	
	±5nm	2.70mm	0.035°+0.01°	15.52mm	0.16	Φ11mm	
	±5nm	3.25mm	0.03°+0.01°	18.68mm	0.15	Φ11mm	
	±5nm	4.22mm	0.02°+0.01°	24.29mm	0.16	Φ12mm	
155 0n m	±5nm	0.87mm	0.11°+0.01°	4.74mm	0.24	Φ11mm	SM F-2 8e
	±5nm	1.24mm	0.09°+0.01°	6.36mm	0.39	Φ11mm	
	±5nm	1.60mm	0.07°+0.01°	8.17mm	0.49	Φ12mm	
	±5nm	2.1mm	0.05°+0.01°	11.32mm	0.24	Φ11mm	
	±5nm	3.05mm	0.04°+0.01°	15.61mm	0.16	Φ11mm	
	±5nm	3.67mm	0.03°+0.01°	18.79mm	0.15	Φ11mm	
	±5nm	4.77mm	0.02°+0.01°	24.42mm	0.16	Φ12mm	
165 0n m	±5nm	0.90mm	0.11°+0.01°	4.74mm	0.24	Φ11mm	SM F-2 8e
	±5nm	1.26mm	0.10°+0.01°	6.37mm	0.39	Φ11mm	
	±5nm	1.62mm	0.07°+0.01°	8.19mm	0.49	Φ12mm	
	±5nm	2.15mm	0.05°+0.01°	11.35mm	0.24	Φ11mm	
	±5nm	3.10mm	0.04°+0.01°	15.65mm	0.16	Φ11mm	
	±5nm	3.73mm	0.03°+0.01°	18.84mm	0.15	Φ11mm	
	±5nm	4.85mm	0.025°+0.01°	24.47mm	0.16	Φ12mm	

Spots and divergence angles not listed can be customized

Packaging materials, packaging dimensions and other fiber connector types can be customized