



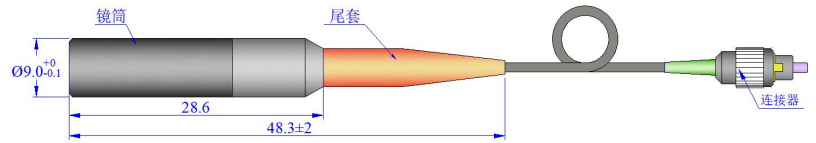
Aspheric Lenses Collimators with Fiber Using a compact structural design with tilted end fibers and aspheric lenses that have been accurately adjusted, the output Gaussian beam quality and excellent collimation characteristics are ensured. The lenses and fiber surfaces are coated with anti-reflection films, greatly reducing the back reflection of the output end face and lowering optical link noise. The long-focus collimator uses a bending housing to correct the output angle caused by the tilted end fibers, while the short-focus collimator uses a straight-through housing where the angle of the output light caused by the tilted end fibers can be ignored.

Wavelength	Bandwidth	Waist Beam Size	Divergence Angle	NA	EFL	Package Dia.	Fiber Type	Connector	Transmittance
405nm	± 5nm	0.85mm	0.06°+0.01°	0.25	4.45mm	Φ9.0mm	405HP	FC/PC FC/APC Sma905	>90%
405nm	± 5nm	2.01mm	0.02° +0.01°	0.25	10.67mm	Φ9.0mm			
405nm	± 5nm	3.6mm	0.015° +0.01°	0.15	17.71mm	Φ9.0mm			
450nm	± 5nm	0.82mm	0.05°+0.01°	0.25	4.50mm	Φ9.0mm	460HP		
450nm	± 5nm	2.0mm	0.02° +0.01°	0.24	10.77mm	Φ9.0mm			
450nm	± 5nm	3.0mm	0.015° +0.01°	0.15	17.88mm	Φ9.0mm			
525nm	± 5nm	0.84mm	0.05°+0.01°	0.25	4.55mm	Φ9.0mm			
525nm	± 5nm	2.1mm	0.02° +0.01°	0.24	10.87mm	Φ9.0mm	630HP		
525nm	± 5nm	3.2mm	0.015° +0.01°	0.15	18.02mm	Φ9.0mm			
635nm	± 5nm	0.86mm	0.05°+0.01°	0.24	4.59mm	Φ9.0mm			
635nm	± 5nm	2.06mm	0.02° +0.01°	0.24	10.96mm	Φ9.0mm	780HP		
635nm	± 5nm	3.5mm	0.015° +0.01°	0.15	18.14mm	Φ9.0mm			
780nm	± 5nm	1.0mm	0.06°+0.01°	0.24	4.63mm	Φ9.0mm			
780nm	± 5nm	2.4mm	0.026° +0.01°	0.24	11.06mm	Φ9.0mm	780HP		
780nm	± 5nm	4.0mm	0.01° +0.01°	0.15	18.33mm	Φ9.0mm			
850nm	± 5nm	1.0mm	0.06°+0.01°	0.24	4.64mm	Φ9.0mm			
850nm	± 5nm	2.41mm	0.03° +0.01°	0.24	11.10mm	Φ9.0mm	980HP		
850nm	± 5nm	3.9mm	0.02° +0.01°	0.15	18.45mm	Φ9.0mm			
980nm	± 5nm	1.0mm	0.07°+0.01°	0.24	4.66mm	Φ9.0mm			
980nm	± 5nm	2.4mm	0.03° +0.01°	0.24	11.16mm	Φ9.0mm	980HP		
980nm	± 5nm	4.0mm	0.02° +0.01°	0.15	18.52mm	Φ9.0mm			
1064nm	± 5nm	1.0mm	0.08°+0.01°	0.24	4.67mm	Φ9.0mm			
1064nm	± 5nm	2.4mm	0.032° +0.01°	0.24	11.18mm	Φ9.0mm	980HP		
1064nm	± 5nm	4.05mm	0.02° +0.01°	0.15	18.58mm	Φ9.0mm			
1310nm	± 5nm	0.84mm	0.11°+0.01°	0.24	4.70mm	Φ9.0mm			
1310nm	± 5nm	2.04mm	0.047° +0.01°	0.23	11.25mm	Φ9.0mm	Smf-28e		
1310nm	± 5nm	3.35mm	0.029° +0.01°	0.15	18.67mm	Φ9.0mm			



Aspheric Lenses Collimators with Fiber

WaveLength	Bandwidth	Waist Beam Size	Divergence Angle	NA	EFL	Package Dia.	Fiber Type	Connector	Transmittance
1550nm	± 5nm	0.87mm	0.11°+0.01°	0.24	4.74mm	Φ9.0mm	Smf-28e	FC/PC	>90%
1550nm	± 5nm	2.10mm	0.053° +0.01°	0.23	11.31mm	Φ9.0mm		FC/APC	
1550nm	± 5nm	3.5mm	0.032° +0.01°	0.15	18.75mm	Φ9.0mm		Sma905	



* Waist beam size: calculated using the theory of single-mode optical fiber for each wavelength, taken at the 1/e2 intensity point of the Gaussian beam.

* Far-field divergence angle of the beam: calculated according to the Gaussian beam 1/e2 theory.

Changchun New Industries Optoelectronics Tech. Co., Ltd
<http://www.cnilaser.com>

No.888, Jinhua Road, High-tech Zone,
 Changchun 130103,China
 Phone: +86-431-85603799
 Fax: +86-431-89216068