Aspheric Fiber Collimator 1550nm

Product Description

The light output of the pigtail is polished at an angle and coated with an anti-reflection film to reduce the return light at the light output end. The long-focus collimator uses a bent housing to accommodate the light output angle caused by the tilted pigtail; the short-focus collimator can ignore the light output angle caused by the tilted pigtail, and these models use a straight-through housing. The other end of the pigtail has a narrow-key FC/PC, FC/APC and SMA905 connector with a standard; various spot diameters and non-magnetic packaging can also be customized.

Product features

Single mode optimization; Non spherical lens design; Low divergence angle; High power tolerance; seismic resistance

Part Number

MP-CLM-1550-0.87-SA

Application area

Fiber optic communication module | Lidar optical head | Sensor network | Testing and measurement | Research platform

Core parameters

Center Wavelength	Effective Focal Length	NA.
1550nm	4.74mm	0.24

General Parameters

405nmAspheric Fiber Collimator									
Central wavelength	Lens coating wavelength	Beam waist spot diameter	Beam far-field divergence angle	Applied aperture (lens)	Effective focal length	Collimator outer diameter	Connector	Fiber type	Transmittance

405nm	400-700nm	0.86	0.06° +0.01°	0.25	4.45mm	5.72mm	FC/PC FC/APC SMA905	405HP	>90%
405nm	400-700nm	1.98	0.02° +0.01°	0.25	10.67mm	9.0mm			
405nm	400-700nm	3.1	0.015° +0.01°	0.15	17.71mm	9.0mm			
450nmAspheric Fiber Collimator									
Central wavelength	Lens coating wavelength	Beam waist spot diameter	Beam far-field divergence angle	Applied aperture (lens)	Effective focal length	Collimator outer diameter	Connector	Fiber type	Transmittance
450nm	400-700nm	0.82	0.05° +0.01°	0.25	4.50mm	5.72mm	FC/PC FC/APC SMA905	405HP	>90%
450nm	400-700nm	2	0.02° +0.01°	0.24	10.77mm	9.0mm			
450nm	400~700nm	3	0.015° +0.01°	0.15	17.88mm	9.0mm			
525nm Aspheric Fiber Collimator									
Central wavelength	Lens coating wavelength	Beam waist spot diameter	Beam far-field divergence angle	Applied aperture (lens)	Effective focal length	Collimator outer diameter	Connector	Fiber type	Transmittance
525nm	400-700nm	0.8mm	0.05° +0.01°	0.25	4.55mm	5.72mm	FC/PC FC/APC SMA905	460HP	>90%
525nm	400~700nm	2.1mm	0.02° +0.01°	0.24	10.87mm	9.0mm			

525nm	400-700nm	3.2mm	0.015° +0.01°	0.15	18.02 mm	9.0mm	MA905		
635nmAspheric Fiber Collimator									
Central wavelength	Lens coating wavelength	Beam waist spot diameter	Beam far-field divergence angle	Applied aperture (lens)	Effective focal length	Collimator outer diameter	Connector	Fiber type	Collimator outer diameter
635nm	400-700nm	0.86mm	0.05° +0.01°	0.24	4.59mm	5.72mm	FC/PC FC/APC SMA905	630HP	>90%
635nm	400-700nm	2.06mm	0.02° +0.01°	0.24	10.96 mm	9.0mm			
635nm	400-700nm	3.5mm	0.015° +0.01°	0.15	18.14 mm	9.0mm			
780nmAspheric Fiber Collimator									
Central wavelength	Lens coating wavelength	Beam waist spot diameter	Beam far-field divergence angle	Applied aperture (lens)	Effective focal length	Collimator outer diameter	Connector	Fiber type	Transmittance
780nm	600-1100nm	1.0mm	0.06° +0.01°	0.24	4.63mm	5.72mm	FC/PC FC/APC SMA9	780HP	>90%
780nm	600-1100nm	2.1mm	0.026° +0.01°	0.24	11.06 mm	9.0mm			
780n	600-11	4.0m	0.01°	0.15	18.33	9.0mm			

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850nmAspheric Fiber Collimator									
Central wavelength	Lens coating wavelength	Beam waist spot diameter	Beam far-field divergence angle	Applied aperture (lens)	Effective focal length	Collimator outer diameter	Connector	Fiber type	Transmittance
850nm	600-1100nm	1.0mm	0.06° +0.01°	0.24	4.64mm	5.72mm	FC/PC FC/APC SMA905	780HP	>90%
850nm	600~1100nm	2.41mm	0.03° +0.01°	0.24	11.10 mm	9.0mm			
850nm	600~1100nm	3.99mm	0.02° +0.01°	0.15	18.45 mm	9.0mm			
980nmAspheric Fiber Collimator									
Central wavelength	Lens coating wavelength	Beam waist spot diameter	Beam far-field divergence angle	Applied aperture (lens)	Effective focal length	Collimator outer diameter	Connector	Fiber type	Transmittance
980nm	600~1100nm	1.0mm	0.07° +0.01°	0.24	4.66mm	5.72mm	FC/PC FC/APC SMA905	980HP	>90%
980nm	600~1100nm	2.4mm	0.03° +0.01°	0.24	11.16 mm	9.0mm			
980nm	600~1100nm	4.0mm	0.02° +0.01°	0.15	18.52 mm	9.0mm			
1064nmAspheric Fiber Collimator									
Central	Lens coatin	Beam waist	Beam far-field	Applied	Effective	Collimator outer	Connect	Fibe	Trans

wavelength	g wavelength	spot diameter	divergence angle	aperture (lens)	focal length	diameter	or	r type	mittance
1064 nm	600-1100nm	1.0mm	0.08° +0.01°	0.24	4.67mm	5.72mm	FC/PC FC/APC SMA905	HI1060	>90%
1064 nm	600-1100nm	2.4mm	0.032° +0.01°	0.24	11.18 mm	9.0mm			
1064 nm	600-1100nm	4.05mm	0.02° +0.01°	0.15	18.58 mm	9.0mm			
1310nm Aspheric Fiber Collimator									
Central wavelength	Lens coating wavelength	Beam waist spot diameter	Beam far-field divergence angle	Applied aperture (lens)	Effective focal length	Collimator outer diameter	Connector	Fiber type	Transmittance
1310 nm	1050-1700nm	0.84mm	0.11° +0.01°	0.24	4.70mm	5.72mm	FC/PC FC/APC SMA905	SMF-28e	>90%
1310 nm	1050-1700nm	2.04mm	0.047° +0.01°	0.23	11.25 mm	9.0mm			
1310 nm	1050-1700nm	3.35mm	0.029° +0.01°	0.15	18.67 mm	9.0mm			
1550nm Aspheric Fiber Collimator									
Central wavelength	Lens coating wavelength	Beam waist spot diameter	Beam far-field divergence angle	Applied aperture (lens)	Effective focal length	Collimator outer diameter	Connector	Fiber type	Transmittance

1550 nm	1050~1700nm	0.87mm	0.11° +0.01°	0.24	4.74mm	5.72mm	FC/PC FC/APC SMA905	SMF-28E	>90%
1550 nm	1050~1700nm	2.10mm	0.053° +0.01°	0.23	11.31 mm	9.0mm			
1550 nm	1050~1700nm	3.5mm	0.032° +0.01°	0.15	18.75 mm	9.0mm			

Beam waist spot diameter: Take the Gaussian beam $1/e^2$, all use the theoretical calculation value of single-mode optical fiber at each wavelength.

Beam far-field divergence angle: According to the theoretical calculation value of Gaussian beam $1/e^2$.