

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									
Centr al wavel ength	Lens coating wavele ngth	Beam waist spot diamo ter	Beam far-field divergen ce angle	Appli ed apert ure (lens)	Effecti ve focal length	Collimato r outer diameter	Con nect or	Fi be r ty pe	Tra ns mit tan ce
405n mm	400-70 0nm	0.86	0.06° +0.01°	0.25	4.45m m	5.72mm	FC/P C F	40 5H P	>90 %
405n m	400-70 0nm	1.98	0.02° +0.01°	0.25	10.67 mm	9.0mm	C/AP C S		
405n m	400-70 0nm	3.1	0.015° +0.01°	0.15	17.71 mm	9.0mm	MA9 05		
450nmAspheric Fiber Collimator									
Centr al wavel ength	Lens coating wavele ngth	Beam waist spot diamo ter	Beam far-field divergen ce angle	Appli ed apert ure (lens)	Effecti ve focal length	Collimato r outer diameter	Con nect or	Fi be r ty pe	Tra ns mit tan ce
450n m	400-70 0nm	0.82	0.05° +0.01°	0.25	4.50m m	5.72mm	FC/P C F	40 5H P	>90 %
450n m	400-70 0nm	2	0.02° +0.01°	0.24	10.77 mm	9.0mm	C/AP C S		
450n m	400~70 0nm	3	0.015° +0.01°	0.15	17.88 mm	9.0mm	MA9 05		
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 F	460HP	>90%
525nm	400~700nm	2.1mm	0.02° +0.01°	0.24	10.87mm	9.0mm	C/APC S		
525nm	400-700nm	3.2mm	0.015° +0.01°	0.15	18.02mm	9.0mm	MA905		
635nm 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	Collimator outer diameter
635nm	400-700nm	0.86mm	0.05° +0.01°	0.24	4.59mm	5.72mm	FC/PC F	630HP	>90%
635nm	400-700nm	2.06mm	0.02° +0.01°	0.24	10.96mm	9.0mm	C/APC S		
635nm	400-700nm	3.5mm	0.015° +0.01°	0.15	18.14mm	9.0mm	MA905		
780nm 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
780nm	600-1100nm	1.0mm	0.06° +0.01°	0.24	4.63m	5.72mm	FC/PC F	780HP	>90%
780nm	600-1100nm	2.1mm	0.026° +0.01°	0.24	11.06mm	9.0mm	C/APC S		
780nm	600-1100nm	4.0mm	0.01° +0.01°	0.15	18.33mm	9.0mm	MA905		
850nm 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
850nm	600-1100nm	1.0mm	0.06° +0.01°	0.24	4.64m	5.72mm	FC/PC F	780HP	>90%
850nm	600~1100nm	2.41mm	0.03° +0.01°	0.24	11.10mm	9.0mm	C/APC S		
850nm	600~1100nm	3.99mm	0.02° +0.01°	0.15	18.45mm	9.0mm	MA905		
980nm 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
980nm	600~1100nm	1.0mm	0.07° +0.01°	0.24	4.66m	5.72mm	FC/PC F	980HP	>90%
980nm	600~1100nm	2.4mm	0.03° +0.01°	0.24	11.16mm	9.0mm	C/APC S		
980nm	600~1100nm	4.0mm	0.02° +0.01°	0.15	18.52mm	9.0mm	MA905		
1064nm 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
1064nm	600-1100nm	1.0mm	0.08° +0.01°	0.24	4.67m	5.72mm	FC/PC F	HI1060	>90%
1064nm	600-1100nm	2.4mm	0.032° +0.01°	0.24	11.18mm	9.0mm	C/APC S		
1064nm	600-1100nm	4.05mm	0.02° +0.01°	0.15	18.58mm	9.0mm	MA905		
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	0.84m	0.11° +0.01°	0.24	4.70m	5.72mm	FC/PC F	SM	>90 %
1310 nm	1050-1700nm	2.04m	0.047° +0.01°	0.23	11.25 mm	9.0mm	C/AP C S	F-28	
1310 nm	1050-1700nm	3.35m	0.029° +0.01°	0.15	18.67 mm	9.0mm	MA905	e	
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	0.87m	0.11° +0.01°	0.24	4.74m	5.72mm	FC/PC F	SM	>90 %
1550 nm	1050~1700nm	2.10m	0.053° +0.01°	0.23	11.31 mm	9.0mm	C/AP C S	F-28	
1550 nm	1050~1700nm	3.5m	0.032° +0.01°	0.15	18.75 mm	9.0mm	MA905	E	



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 $1/e^2$.