

Datasheet Plastic Collimator Lens CSX122

VIAOPTIC Part No 099-099-001-005

These data concern a full plastic spherical plano-convex lens. It is specified for use as a collimator in combination with a diode laser. It can be mounted by use of glue or spring-loaded. Mechanical lock-mounting is not advisable because of possible distortions.

Parameters	Wavelength		Unit
	670 nm	785 nm	
Design conditions			
N.A.	0.12		--
Clear Aperture <i>CA</i>	3.0		mm
Designed with laser cover glass (<i>BK7</i>) on source side:			
Distance from source	0.55		mm
Glass thickness	0.25		mm
Optical parameters			
Focal Length	12.10	12.22	mm
Back Focal Length <i>BFL</i> (with 0.25 mm laserglass)	11.38	11.50	mm
Free Working Distance <i>FWD</i>	10.35	10.47	mm
<i>RMS</i> mean	on axis	90	mλ
<i>RMS</i> max. ($\pm 3\sigma$)	on axis	95	mλ
	total	95	mλ
Optical Tolerance	0.1		mm
Field Radius	0.3		mm
Mechanical parameters			
Mounting hole diameter D_{mh}	Ø 6.28		mm
Other parameters: see drawing			
Environmental stability			
Storage Temperature	-25 to 100		°C
Operating Temperature	-10 to 75		°C

General Data:

Transmission [%]: 90

Lens Material: Polycarbonate

Specifications subject to change without notice.
Zemax catalogue file available.