

Datasheet Plastic Collimator Lens CSX122

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 CA	3.0		mm
Designed with laser cover glass (BK7) 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 BFL (with 0.25 mm laserglass)	11.38	11.50	mm
Free Working Distance FWD	10.35	10.47	mm
RMS mean	on axis	90	mλ
RMS max. (±3σ)	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.

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SECTION A-A

