

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		Wavel 670 nm	Wavelength 670 nm 785 nm	
Design conditions				
N.A. Clear Aperture CA Designed with laser cover glass (BK7) on source side: Distance from source Glass thickness		0.5	0.12 3.0 0.55 0.25	
Optical parameters				
Focal Length Back Focal Length BFL (with 0.25 mm laserglass) Free Working Distance FWD		12.20 11.58 10.47	12.32 11.70 10.59	mm mm mm
RMS mean	on axis	9	90	
RMS max. (±3σ)	on axis total		95 95	
Optical Tolerance Field Radius			0.1 0.3	
Mechanical parameters				
Mounting hole diameter D_{mh} Other parameters: see drawing		Ø	Ø 6.28	
Environmental stability				
Storage Temperature Operating Temperature			-25 to 100 -10 to 75	

General Data: Transmission [%]: 90 Lens Material: Polycarbonate

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