

## Datasheet Plastic Collimator Lens CAX100 VIAOPTIC Part No 099-099-001-003

These data concern a full plastic aspherical 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		<b>Wavelength</b> 670 nm	Unit
Design conditions			
N.A. Clear Aperture CA Designed with laser cover glass (BK7) o Distance from source Glass thickness (Bk-7)	n source side:	0.20 4.1 0.55 0.25	mm mm mm
Optical parameters			
Focal Length Back Focal Length BFL Back Focal Length BFL (incl BK7-glass) Free Working Distance FWD Free Working Distance FWD (incl BK7-glass)		10.0 9.21 9.30 8.48 8.57	mm mm mm mm
RMS mean RMS max. (±3 $\sigma$ )	on axis on axis	35 80	mλ mλ
Optical Tolerance Field Radius		0.1 0.2	mm mm
Mechanical parameters			
Mounting hole diameter $D_{mh}$ Other parameters: see drawing		Ø 6.28	mm
Environmental stability			
Storage Temperature Operating Temperature		-25 to 100 -10 to 75	°C

General Data: Transmission [%]: 90

Lens Material: Polycarbonate

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