

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		Wavelength	Unit
		670 nm	
Design conditions			
N.A.		0.20	
Clear Aperture CA		4.1	mm
Designed with laser cover glass (BP	(7) on source side:		
Distance from source		0.55	mm
Glass thickness (Bk-7)		0.25	mm
Optical parameters			
Focal Length		10.0	mm
Back Focal Length <i>BFL</i>		9.21	mm
Back Focal Length BFL (incl BK7-glass)		9.30	mm
Free Working Distance FWD		8.48	mm
Free Working Distance FWD (incl BK7-glass)		8.57	mm
<i>RMS</i> mean	on axis	35	mλ
RMS max. (±3 o)	on axis	80	mλ
Optical Tolerance		0.1	mm
, Field Radius		0.2	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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