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** 670 nm	**Unit**
Design conditions			
N.A.		0.20	--
Clear Aperture *CA*		4.1	mm
Designed with laser cover glass (*BK7*) 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 *BFL*		9.30	mm
Back Focal Length *BFL* *(incl BK7-glass)*		9.21	mm
Free Working Distance *FWD*		8.48	mm
Free Working Distance *FWD* *(incl BK7-glass)*		8.57	mm
RMS mean	on axis	35	mλ
RMS max. (±3σ)	on axis	80	mλ
Optical Tolerance		0.1	mm
Field Radius		0.2	mm
Mechanical parameters			
Mounting hole diameter D_{mh}		∅ 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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