

Datasheet Plastic Collimator Lens CAW100

VIAOPTIC Part No 099-099-001-009

These data concern a full plastic spherical aspherical lens. It is 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 785 nm	Unit
Design conditions		
N.A.	0.195	--
Clear Aperture CA (Exit Pupil)	3.9	mm
Clear Aperture CA (Entrance Pupil)	3.4	mm
Distance from source	0.55	
Glass thickness	0.25	
Optical parameters		
Focal Length	10.00	mm
Back Focal Length <i>BFL</i>	8.59	mm
Free Working Distance <i>FWD</i>	8.49	mm
<i>RMS</i> mean on axis	40	mλ
<i>RMS</i> max. ($\pm 3\sigma$) on axis	50	mλ
Optical Tolerance	0.1	mm
Field Radius	0.15	mm
Mechanical parameters		
Mounting hole diameter D_{mh}	Ø 5.20	mm
Environmental stability		
Storage Temperature	< 90	°C
Operating Temperature	-20 to 80	°C

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

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