

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		
<i>N.A.</i>	0.195	--
Clear Aperture <i>CA (Exit Pupil)</i>	3.9	mm
Clear Aperture <i>CA (Entrance Pupil)</i>	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
<i>RMS</i> max. ($\pm 3\sigma$)	on axis	50
Optical Tolerance	0.1	mm
Field Radius	0.15	mm
Mechanical parameters		
Mounting hole diameter D_{mh}	$\varnothing 5.20$	mm
Environmental stability		
Storage Temperature	< 90	°C
Operating Temperature	-20 to 80	°C

General Data: Transmission [%]: 90% Lens Material: COP
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Specifications subject to change without notice.
Zemax catalogue file available.