

Datasheet Plastic Collimator Lens CAW100

These data concern a full plastic spherical plano-convex 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	9.85	mm
RMS mean on axis	40	mλ
RMS 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 [%]: 75 (785 nm)
 Lens Material: COP

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

Revision Date: 20.05.2019

