

Datasheet Plastic Collimator Lens CAW110

These data concern a full plastic spherical 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		
<i>N.A.</i>	0.26	--
Clear Aperture <i>CA</i>	4,1	mm
Designed with laser cover glass (<i>BK7</i>) on source side:		
Distance from source	0.55	mm
Glass thickness	0.25	mm
Optical parameters		
Focal Length	10,92	mm
Back Focal Length <i>BFL</i>	10,19	mm
Free Working Distance <i>FWD</i>	10,11	mm
<i>RMS</i> mean	on axis	40
		mλ
<i>RMS</i> max. ($\pm 3\sigma$)	on axis	50
		mλ
		mλ
Optical Tolerance	0.1	mm
Mechanical parameters		
Mounting hole diameter D_{mh}	Ø 6,28	mm
Other parameters: see drawing		
Environmental stability		
Storage Temperature	< 90	°C
Operating Temperature	-20 to 80	°C

General Data:
 Transmission: 82% (670 nm)
 Lens Material: COP

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

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SECTION A-A

