

## Datasheet Plastic Collimator Lens CAW060

VIAOPTIC Part No 099-099-001-012

These data concern a full plastic aspherical bi-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 655 nm	Unit
<b>Design conditions</b>		
N.A.	0.22	--
Clear Aperture CA	2.2	mm
Designed with laser cover glass (BK7) on source side:		
Distance from source	0.55	mm
Glass thickness	0.25	mm
<b>Optical parameters</b>		
Focal Length	6.00	mm
Back Focal Length <i>BFL</i>	4.82	mm
Back Focal Length <i>BFL</i> (with 0.25mm laserglass)	4.90	mm
Free Working Distance <i>FWD</i>	4.67	mm
Free Working Distance <i>FWD</i> (with 0.25mm laserglass)	4.75	mm
RMS mean on axis	30	mλ
Optical Tolerance	0.1	mm
<b>Mechanical parameters</b>		
Mounting hole diameter $D_{mh}$	Ø 5.00	mm
Other parameters: see drawing		
<b>Environmental stability</b>		
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.