

## Automotive

**Datasheet Plastic Collimator Lens CAW100**

These data concern a full plastic a-spherical 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.

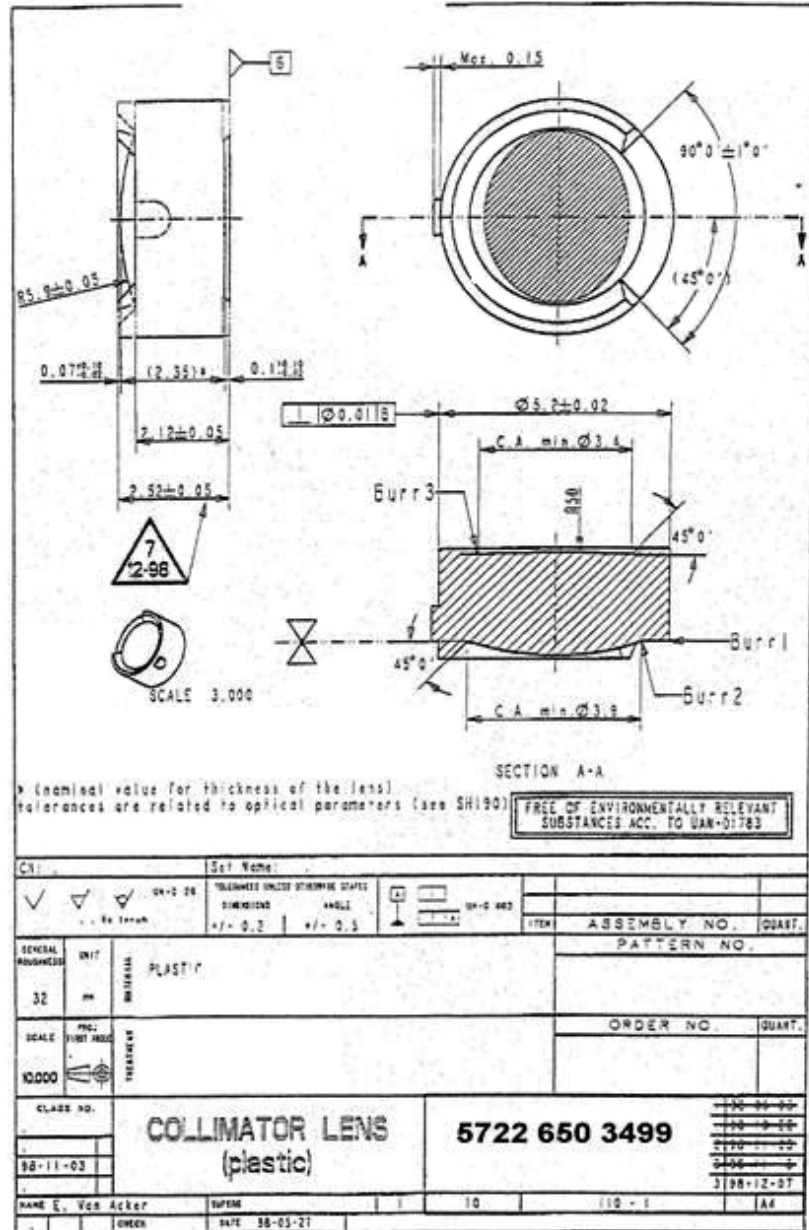
Parameters	Wavelength 785 nm	Unit
<b>Design conditions</b>		
<i>N.A.</i>	0.195	--
Clear Aperture <i>CA (Exit Pupil)</i>	3.9	mm
Clear Aperture <i>CA (Entrance Pupil)</i>	3.4	mm
<b>Optical parameters</b>		
Focal Length @ 785 nm	9.85	mm
<i>RMS</i> mean	on axis	40
		mλ
<i>RMS</i> max. ( $\pm 3\sigma$ )	on axis	50
		mλ
Optical Tolerance	0.15	mm
Field Radius	0.15	mm
<b>Mechanical parameters</b>		
Mounting hole diameter $D_{mh}$	$\varnothing 5.20 (+0.1)$	mm
<b>Environmental stability</b>		
Storage Temperature	0 to 65	°C
Operating Temperature	0 to 65	°C
General Data:		
Transmission [%]:	> 80	
Lens Material:	COC	

Specifications subject to change without notice.

© Helvoet Rubber & Plastic Technologies NV. All rights reserved. Reproduction prohibited without written permission from the copyright owner

Automotive

© Helvoet Rubber & Plastic Technologies NV. All rights reserved. Reproduction prohibited without written permission from the copyright owner



T.P.D.  
dd 7 DEC. 1998