

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.

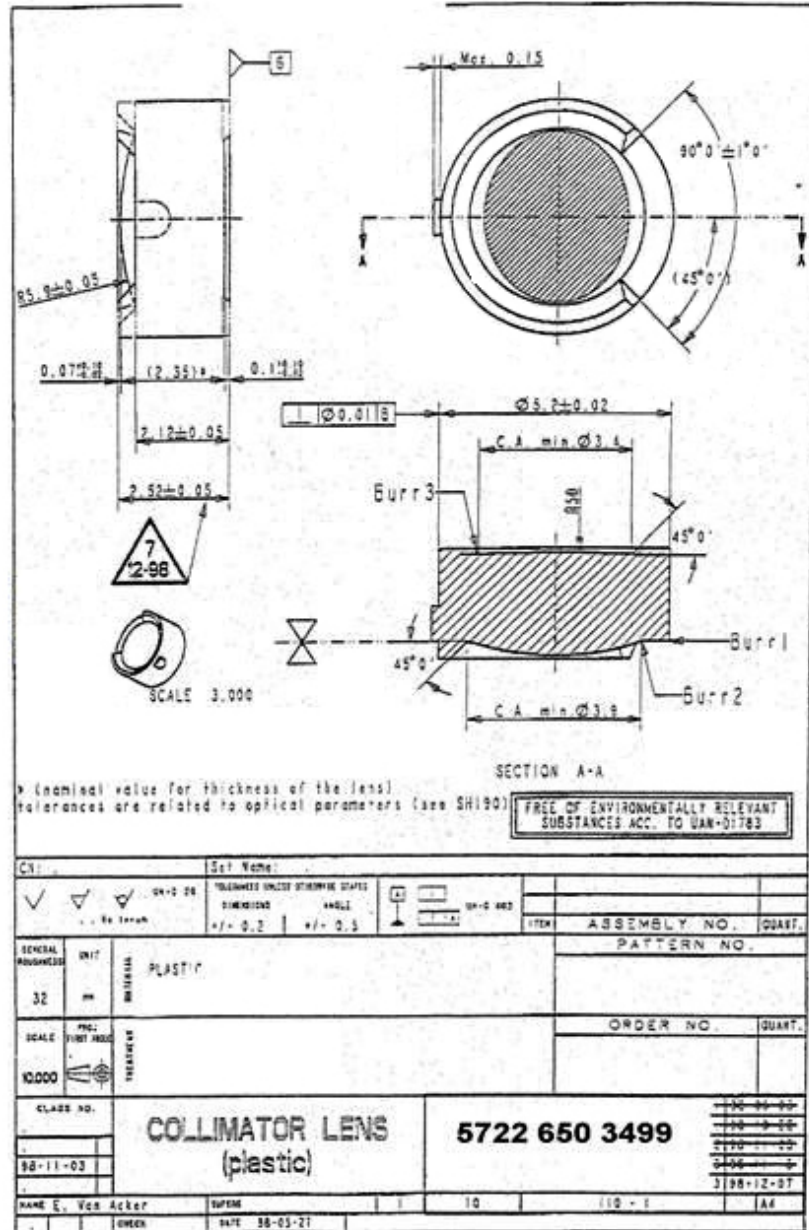
Parameters	Wavelength 785 nm	Unit
Design conditions		
N.A.	0.195	--
Clear Aperture CA (Exit Pupil)	3.9	mm
Clear Aperture CA (Entrance Pupil)	3.4	mm
Optical parameters		
Focal Length @ 785 nm	9.85	mm
RMS mean	on axis	40
		mλ
RMS max. ($\pm 3\sigma$)	on axis	50
		mλ
Optical Tolerance	0.15	mm
Field Radius	0.15	mm
Mechanical parameters		
Mounting hole diameter D_{mh}	$\varnothing 5.20 (+0.1)$	mm
Environmental stability		
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.

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