



Datasheet Plastic Collimator Lens CAX100¹

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						Unit
Design conditions (670 nm)						
N.A.		0.2				--
Clear Aperture (<i>Exit Pupil</i>)		4.1				mm
Clear Aperture (<i>Entrance Pupil</i>)		3.9				mm
Optical parameters						
		Wavelength				nm
		546	632	670	780	
Effective Focal Length ¹⁾		9.78	9.93	9.97	10.07	mm
Back Focal Length ¹⁾		8.98	9.12	9.17	9.26	mm
Free Working Distance ¹⁾		8.25	8.39	8.44	8.53	mm
RMS mean ¹⁾		28	33	35	41	mλ
RMS max. ($\pm 3\sigma$) ¹⁾		65	75	80	93	mλ
Field Radius		0.2				mm
1) Remark: without 4 mm SF11 glass or 1.25 mm BK7 glass						
1) Optical Tolerance		+/- 0.10				mm
Mechanical parameters						
Mounting hole diameter D_{mh}		\varnothing 6.28 (+/- 0.02)				mm
Lens Thickness		1.25				mm
Optical Eccentricity		< 30				μm
Environmental stability						
Storage Temperature		0 to 65				°C
Operating Temperature		0 to 65				°C
General Data:						
Transmission [%]:		> 90 (non coated)				
Lens Material:		POLYCARB				

¹ Specifications subject to change without notice. Values for Entrance Pupil side see figure

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