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Datasheet Plastic Collimator Lens CAX183

These data concern a full plastic aspherical 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	785 nm	**Unit**
Design conditions				
N.A.		0.12		--
Clear Aperture *CA*		4.3		mm
Designed with laser cover glass (*BK7*) on source side:				
Distance from source		0.55		mm
Glass thickness		0.25		mm
Optical parameters				
Focal Length		18.15	18.33	mm
Back Focal Length *BFL (with 0.25mm laserglass)*		17.51	17.69	mm
Free Working Distance *FWD*		16.30	16.48	mm
RMS mean	on axis	25		mλ
	total			mλ
RMS max. (±3σ)	on axis	30		mλ
	total	35		mλ
Optical Tolerance		0.1		mm
Field Radius		0.3		mm
Mechanical parameters				
Mounting hole diameter D_{mh}		∅ 6.28		mm
Other parameters: see drawing				
Environmental stability				
Storage Temperature		-25 to 100		°C
Operating Temperature		-10 to 75		°C

General Data:
Transmission [%]: 90
Lens Material: Polycarbonate

Specifications subject to change without notice.
Zemax cataloguefile available.

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