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## **Datasheet Plastic Collimator Lens CAX183**

VIAOPTIC Part No 099-099-001-002

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. Clear Aperture CA Designed with laser cover glass (BK7) on source side: Distance from source Glass thickness		0.12 4.3 0.55 0.25		mm mm mm
Optical parameters				
Focal Length Back Focal Length <i>BFL (with 0.25mm laserglass)</i> Free Working Distance <i>FWD</i>		18.15 17.51 16.30		mm mm mm
RMS mean	on axis	25		mλ
RMS max. (±3σ)	total on axis total	3		mλ mλ mλ
Optical Tolerance Field Radius		0.1 0.3		mm mm
Mechanical parameters				
Mounting hole diameter $D_{mh}$ Other parameters: see drawing		Ø 6.28		mm
Environmental stability				
Storage Temperature Operating Temperature		-25 to 100 -10 to 75		°C °C

General Data:

Transmission [%]: 90

Lens Material: Polycarbonate

Specifications subject to change without notice. Zemax catalogue file available.