

## 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		W 670	Wavelength 670 785 nm	
Design conditions				
N.A. Clear Aperture CA Designed with laser cover glass (BK7) on so Distance from source Glass thickness	ource side:		0.12 4.3 0.55 0.25	mm mm mm
Optical parameters				
Focal Length Back Focal Length BFL Back Focal Length BFL (with 0.25mm laserglass) Free Working Distance FWD Free Working Distance FWD (with laserglass)		18.15 17.52 17.60 16.29 16.37	18.33 17.69 17.78 16.46 16.55	mm mm mm mm
RMS mean RMS max. ( $\pm 3\sigma$ )	on axis total on axis total		25 30 35	mλ mλ mλ mλ
Optical Tolerance Field Radius			0.1 0.3	
Mechanical parameters				
Mounting hole diameter $D_{mh}$ Other parameters: see drawing			Ø 6.28	
Environmental stability				
Storage Temperature Operating Temperature			-25 to 100 -10 to 75	

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

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