

Datasheet Plastic Collimator Lens CAS183 VIAOPTIC Part No 099-099-001-013

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		Wavelo	Wavelength 670 nm 785 nm	
Design conditions				
N.A. Clear Aperture CA Designed with laser cover glass (BK7) on source side: Distance from source Glass thickness		0.5	0.12 4.3 0.55 0.25	
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 0.25mm laserglass)		18.70 18.06 18.14 16.83 16.91	18.86 18.22 18.31 16.99 17.08	mm mm mm
<i>RMS</i> mean	on axis	25	25	
RMS max. (±3σ)	total on axis total		30 35	
Optical Tolerance Field Radius			0.1 0.3	
Mechanical parameters				
Mounting hole diameter D_{mh} Other parameters: see drawing		Ø6	Ø 6.28	
Environmental stability				
Storage Temperature Operating Temperature			-25 to 70 0 to 60	

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

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