

Datasheet Plastic Collimator Lens CAY033/040 VIAOPTIC Part No 099-099-001-004

These data concern a full plastic bi-aspherical 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	Unit
Design conditions			
N.A. Clear Aperture CA Designed with laser cover glass (BK7) Distance from source Glass thickness	on source side:	0.38 2.5 0.55 0.25	 mm mm mm
Optical parameters			
Focal Length Back Focal Length BFL Back Focal Length BFL (with laserglass Free Working Distance FWD Free Working Distance FWD (with laser		3.30 1.99 2.08 1.84 1.93	mm mm mm mm
RMS mean	on axis	30	mλ
<i>RMS</i> max. ($\pm 3\sigma$)	total on axis total	40 65	mλ mλ
Optical Tolerance Field Radius		0.1 0.05	mm mm
Mechanical parameters			
Mounting hole diameter D_{mh} Other parameters: see drawing		Ø 4.0	mm
Environmental stability			
Storage Temperature Operating Temperature		-25 to 70 5 to 65	°C

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

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