Datasheet Plastic Collimator Lens CAY033

VIAOPTIC Part No 099-099-001-001

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 785nm**	**Unit**
Design conditions			
N.A.		0.4	--
Clear Aperture *CA*		2.7	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		3.30 3.32	mm
Back Focal Length *BFL*		2.08 2.10	mm
Free Working Distance *FWD*		1.98 2.00	mm
RMS mean	on axis	30	mλ
	total		
RMS max. (±3σ)	on axis	40	mλ
	total	65	mλ
Optical Tolerance		0.1	mm
Field Radius		0.05	mm
Mechanical parameters			
Mounting hole diameter D_{mh}		7.40	mm
Other parameters: see drawing			
Environmental stability			
Storage Temperature		-25 to 70	°C
Operating Temperature		5 to 65	°C

General Data:
Transmission: 95 % for 785 nm
Lens Material: Acrylic

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

VIAOPTIC GmbH | Am Leitz-Park 1 | D-35578 Wetzlar | phone: 06441 9011-0 | e-mail: info@viaoptic.de | www.viaoptic.de