

Datasheet Plastic Collimator Lens CAY046/055 VIAOPTIC Part No 099-099-001-007

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 785 nm		Unit
Farameters				onic
Design conditions				
<i>N.A.</i> Clear Aperture <i>CA</i> Designed with laser cover glass (<i>BK7</i>) on source side: Distance from source Glass thickness		0.35 3.4 0.55 0.25		 mm mm
Optical parameters				
Focal Length Back Focal Length <i>BFL</i> Back Focal Length <i>BFL (with BK7 coverglass)</i> Free Working Distance <i>FWD</i> Free Working Distance <i>FWD (with BK7 covergl</i> e	ass)	4.60 3.09 3.18 2.89 2.98	4.64 3.12 3.20 2.92 3.00	mm mm mm mm
<i>RMS</i> mean	on axis	30		mλ
<i>RMS</i> max. (±3 o)	on axis	40		mλ
Optical Tolerance Field Radius		0.1 0.1		mm mm
Mechanical parameters				
Mounting hole diameter <i>D</i> _{mh} Other parameters: see drawing		ØS	5.50	mm
Environmental stability				
Storage Temperature Operating Temperature		-25 to 70 5 to 65		°C °C

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

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

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