

Automotive

Datasheet Plastic Collimator Lens CAY046/055

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
Design conditions				
N.A. Clear Aperture CA Designed with laser cover glass (BK7) on source side: Distance from source Glass thickness		0.37 3.4 0.55 0.25		 mm mm mm
Optical parameters				
Focal Length Back Focal Length BFL (with BK7 coverglass) Free Working Distance FWD		4.60 3.18 2.98	4.64 3.20 3.00	mm mm mm
RMS mean	on axis	30		mλ
RMS max. (±3σ)	on axis	40		mλ
Optical Tolerance Field Radius		0.		mm mm
Mechanical parameters				
Mounting hole diameter D_{mh} Other parameters: see drawing		Ø 5.50 (+ 0.03)		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.

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Ohmstrasse 4 85716 Unterschleissheim www.imm-photonics.de Tel.: +49 89 3214120 Fax.: +49 89 32141211 sales@imm-photonics.de