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## Datasheet Plastic Diffractive Lens CDW042/52

VIAOPTIC Part No 099-099-001-008

These data concern a full plastic a-spherical diffractive 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) on source side: Distance from source Glass thickness		0.25 2.1 0.55 0.25	mm mm mm
Optical parameters			
Focal Length Back Focal Length <i>BFL</i> Free Working Distance <i>FWD</i>		4.24 3.57 3.08	mm mm mm
RMS mean	on axis	40	mλ
RMS max. (±3σ)	on axis	50	mλ
Optical Tolerance Field Radius		0.1 0.1	mm mm
Mechanical parameters			
Mounting hole diameter $D_{mh}$ Other parameters: see drawing		Ø <b>5.20</b>	mm
Environmental stability			
Storage Temperature Operating Temperature		< 90 -20 to 80	°C °C

General Data:

Transmission [%]: 90 (670 nm)

Lens Material: COP

Specifications subject to change without notice.