

## Datasheet Plastic Collimator Lens CAS183 VIAOPTIC Part No 099-099-001-013

These data concern a full plastic aspherical plano-convex 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		Wavel 670 nm	Wavelength 670 nm 785 nm	
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		4.	0.12 4.3 0.55 0.25	
Optical parameters				
Focal Length Back Focal Length <i>BFL</i> Back Focal Length <i>BFL (with 0.25mm laserglass)</i> Free Working Distance <i>FWD</i> Free Working Distance <i>FWD (with 0.25mm laserglass)</i>		18.70 18.06 18.14 16.83 16.91	18.86 18.22 18.31 16.99 17.08	mm mm mm
<i>RMS</i> mean	on axis	2	25	
<i>RMS</i> max. (±3 <b>σ</b> )	total on axis total		30 35	
Optical Tolerance Field Radius			0.1 0.3	
Mechanical parameters				
Mounting hole diameter <i>D</i> <sub>mh</sub> Other parameters: see drawing		Ø 6	Ø 6.28	
Environmental stability				
Storage Temperature Operating Temperature			-25 to 70 0 to 60	
General Data:		1		

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

Transmission [%]: 90 Lens Material: SAN

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