

# CAX100



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	Wavelength 670 nm	Unit
Design conditions		
Clear Aperture	0.20	--
Designed with laser cover glass ( ) on source side:	4.1	mm
Distance from source	0.55	mm
Glass thickness	0.25	mm
Optical parameters		
Focal Length	10.0	mm
Back Focal Length incl glass	9.21	mm
Free Working Distance WD	8.48	mm
M mean on axis	35	m
M max. (±3 ) on axis	80	m
Optical Tolerance	0.1	mm
Field Radius	0.2	mm
Mechanical parameters		
Mounting hole diameter $D_{mh}$	6.28	mm
Other parameters: see drawing		
Environmental stability		
Storage Temperature	-25 to 100	C
Operating Temperature	-10 to 75	C
General Data: Transmission [%]: 90 Lens Material: Polycarbonate		