

Plastic Collimator Lens CAY046-74-2

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		Unit
	670 nm	785 nm	
Design conditions			
N.A.	0.4		–
Clear apertures CA	3.5 / 4.2		mm
Designed with laser cover glass (BK7) on source side:			
Distance from source	0.55		mm
Glass thickness	0.25		mm

Optical parameters

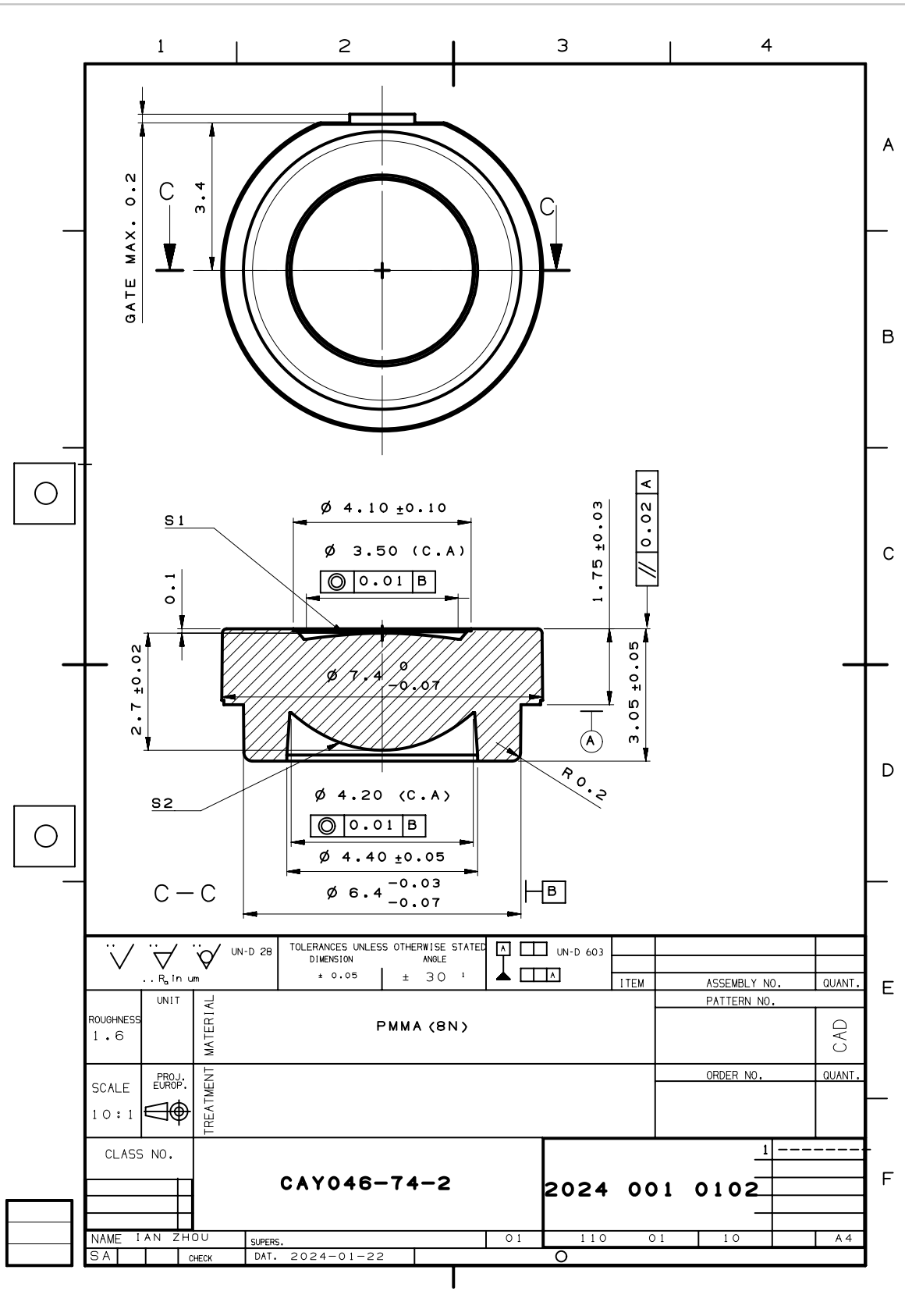
Focal length	4.60	4.64	mm
Back focal length BFL (with BK7 coverglass)	3.18	3.20	mm
Free working distance FWD	3.08	3.10	mm
RMS mean	on axis	30	mλ
RMS max. ($\pm 3\sigma$)	on axis	40	mλ
Optical tolerance	0.1		mm
Field radius	0.1		mm

Parameters	Wavelength		Unit
	670 nm	785 nm	
Mechanical parameters			
Mounting hole diameter D_{mh}	Ø 7.40 (+0.03)		mm
Other parameters: see drawing 2024-001-0102			
Environmental stability			
Storage temperature	-25 to 70		°C
Operating temperature	5 to 65		°C
General Data:			
Transmission [%]: > 90			
Lens material: Acrylic	PMMA [8N]		

Specifications subject to change without notice.
Zemax cataloguefile available.

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