PHILIPS

LASER COMPONENTS

Datasheet Plastic Collimator Lens CAY033

These data concern a full plastic bi-aspherical lens. It is specified for use as a collimator in combination with a diode laser. The lens is AR-coated for 785 nm. 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.			0.40	--
Clear Aperture *CA*			2.7	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		3.30	3.32	mm
Back Focal Length *BFL (with 0.25mm laserglas)*		2.08	2.10	mm
Free Working Distance *FWD*		1.98	2.00	mm
RMS mean	on axis		30	mλ
	total			
RMS max. (±3σ)	on axis		40	mλ
	total		65	mλ
Optical Tolerance			0.1	mm
Field Radius			0.05	mm
Mechanical parameters				
Mounting hole diameter D_{mh}			∅ 7.40 (+ 0.03)	mm
Other parameters: see drawing				
Environmental stability				
Storage Temperature			-25 to 70	°C
Operating Temperature			5 to 65	°C

General Data:
Transmission: 95 % for 785 nm
Lens Material: Acrylic

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

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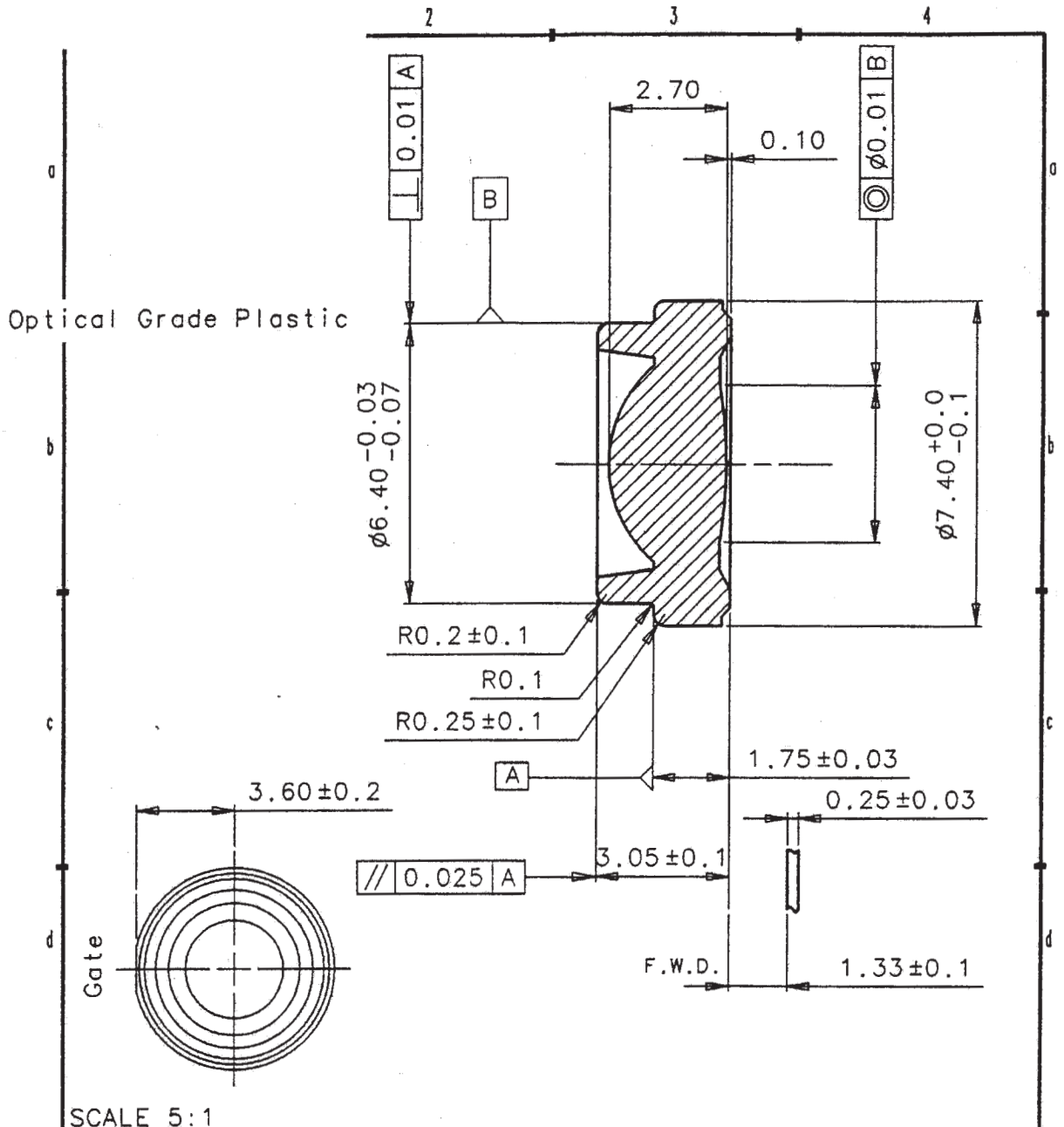

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