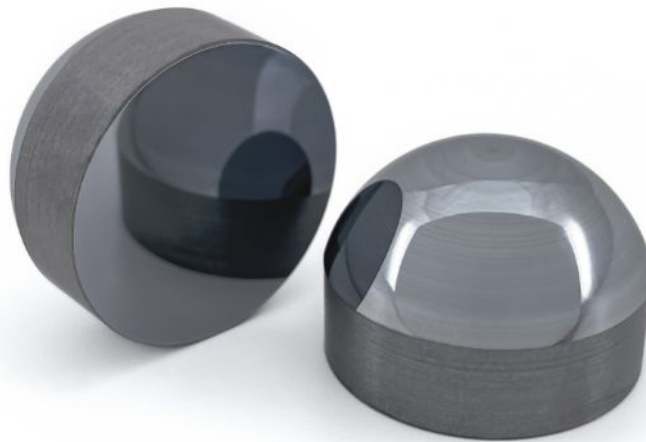


Data Sheet LSA-D20-T13.77

Collimating Silicon Lens



Patent DE 10 2006 037470 A1

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1 General

The collimating silicon lens ([LSA-D20-T13.77](#)) with a diameter of 20 mm has been developed for the control of THz radiation from a GaAs PCA chip¹ and generates a collimated THz beam.

2 Parameter

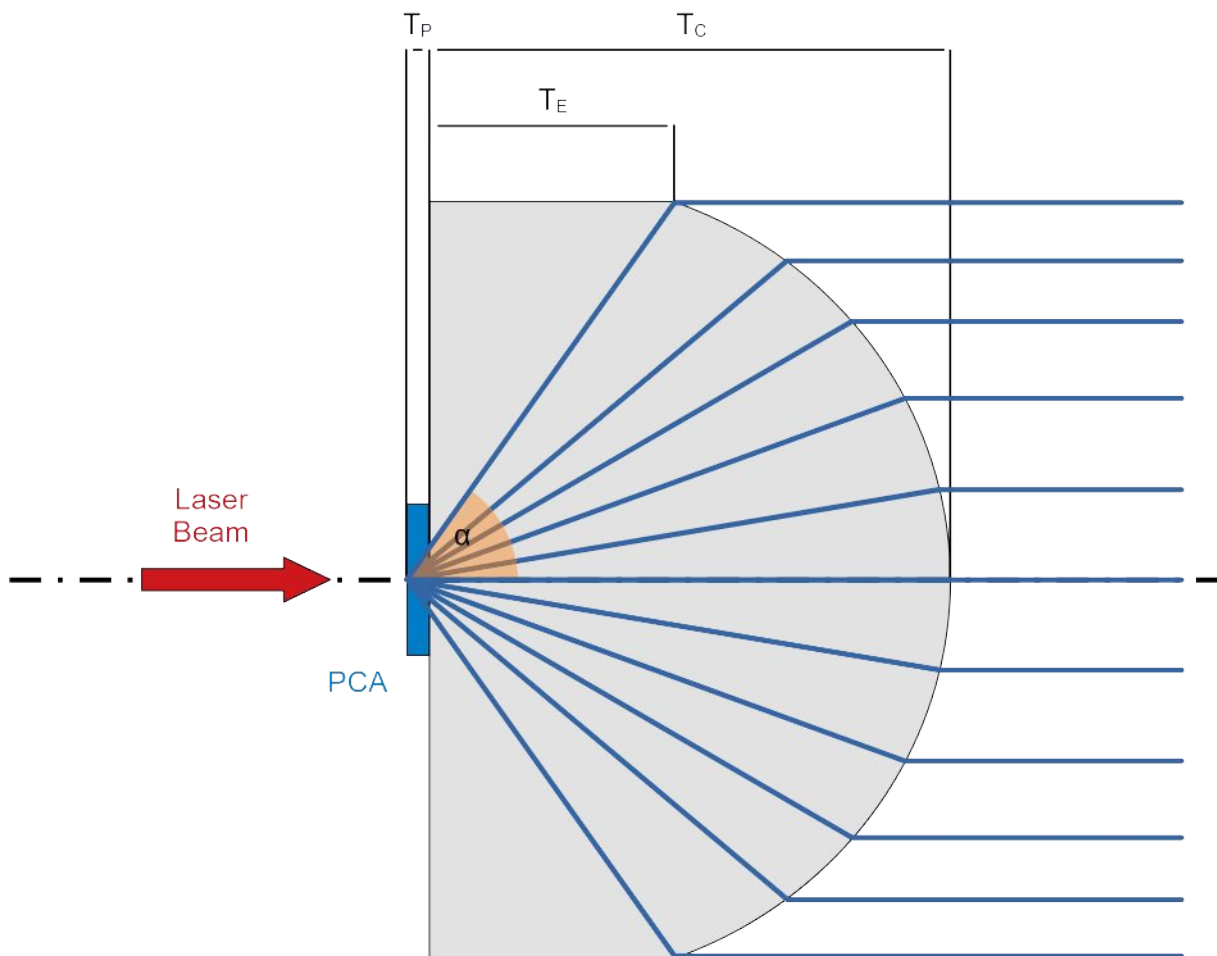
Diameter	20.00 ± 0.05 mm
Thickness center [T _C]	13.77 ± 0.05 mm
Thickness edge [T _E]	6.46 mm
Form	Asphere
Material	Silicon
Refractive index	3.41
Transmittance	> 53 % (@ 0.1 - 3.0 THz)

3 Application Note

An Anti-Reflex coating is available on request.

Collection angle [α]	54.6°
Beam diameter	20.0 mm
Thickness PCA chip [T _P]	0.625 mm

¹ Gallium Arsenide Photo Conductive Antenna Chip



LSA-D20-T13.77

Figure 1: LSA-D20-T13.77

For further control of the THz radiation (e.g. focussing) we do offer a wide range of additional TPX lenses. Please check our [website](http://www.batop.de) for more details.

4 Contact Details

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