

## Data Sheet LSA-D20-T13.77

Collimating Silicon Lens



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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 chip<sup>1</sup> and generates a collimated THz beam.

## 2 Parameter

Material	HRFZ-Silicon
Resistance	> 10 kΩ*cm
Refractive index	3.41
Diameter	20.00 ± 0.05 mm
Thickness center [T <sub>C</sub> ]	13.77 ± 0.05 mm
Thickness edge [T <sub>E</sub> ]	6.46 mm

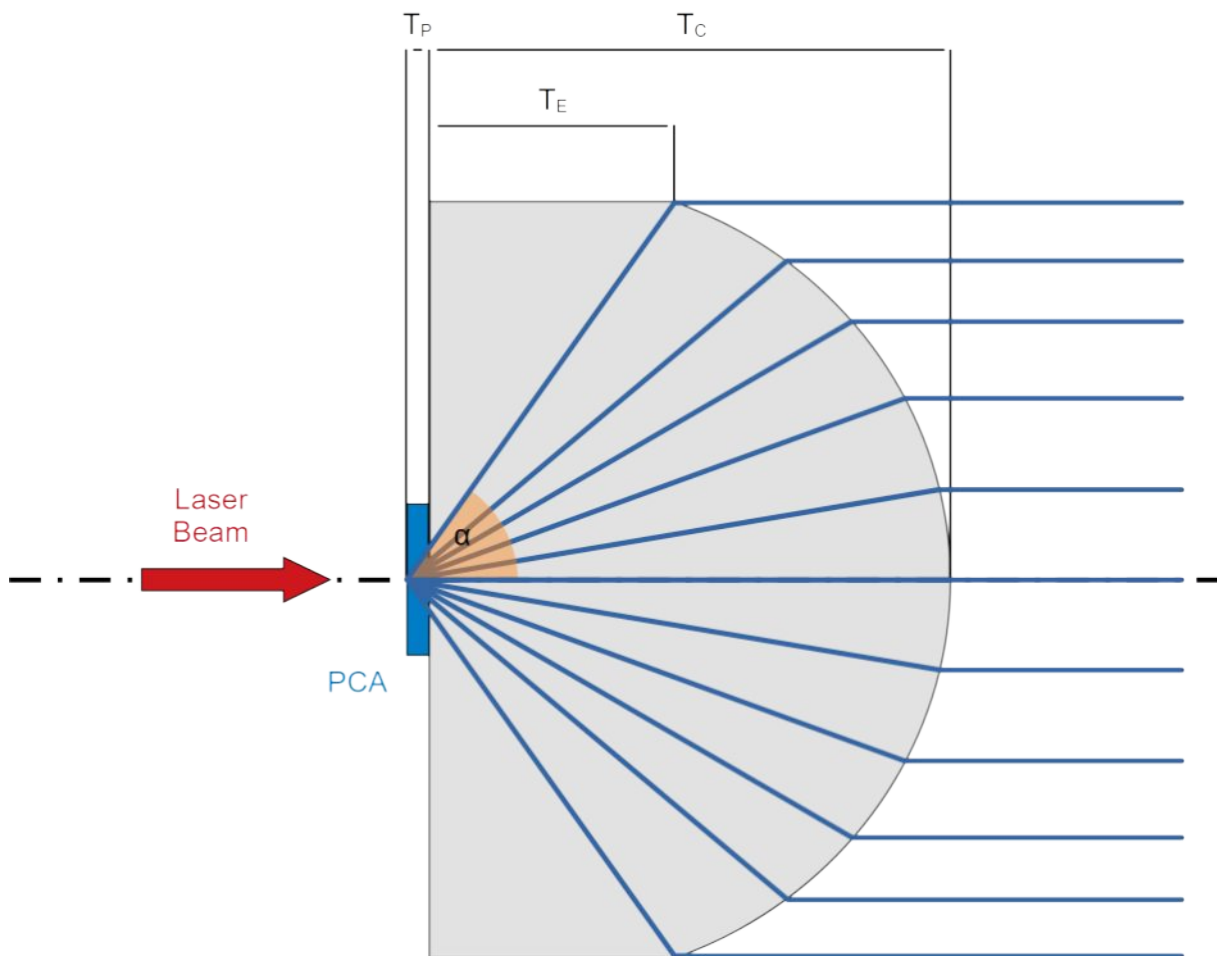
## 3 Application Note

An Anti-Reflex coating is available on request.

Collection angle [α]	54.6°
Beam diameter	20.0 mm
Thickness PCA chip [T <sub>P</sub> ]	0.625 mm

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<sup>1</sup> Gallium Arsenide Photo Conductive Antenna Chip



LSA-D20-T13.77

Figure 1: LSA-D20-T13.77

## 4 Contact Details

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