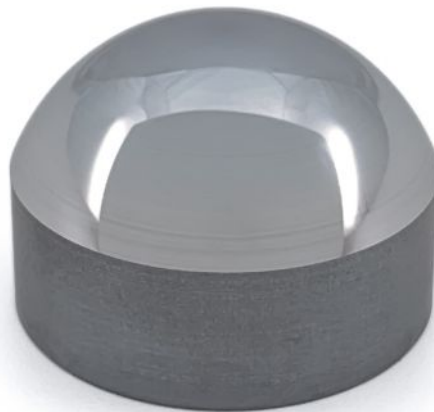


Data Sheet LSA-D20-T14-F50

Focusing Silicon Lens



Patent DE 10 2006 037470 A1

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1 General

The focusing silicon lens ([LSA-D20-T14-F50](#)) with a diameter of 20 mm has been developed for the control of THz radiation from a GaAs PCA chip¹ and generates a focused THz beam.

2 Specification

Material	HRFZ-Silicon
Resistance	> 10 kΩ*cm
Refractive index	3.41
Diameter	20.00 ± 0.05 mm
Thickness center [T _C]	14.00 ± 0.05 mm
Thickness edge [T _E]	7.06 mm

3 Application Note

An Anti-Reflex coating is available on request.

Collection angle [α]	52.7°
Convergence angle [β]	10.0°
Focal length [FL]	50.0 mm
Thickness PCA chip [T _P]	0.625 mm

¹ Gallium Arsenide Photo Conductive Antenna Chip

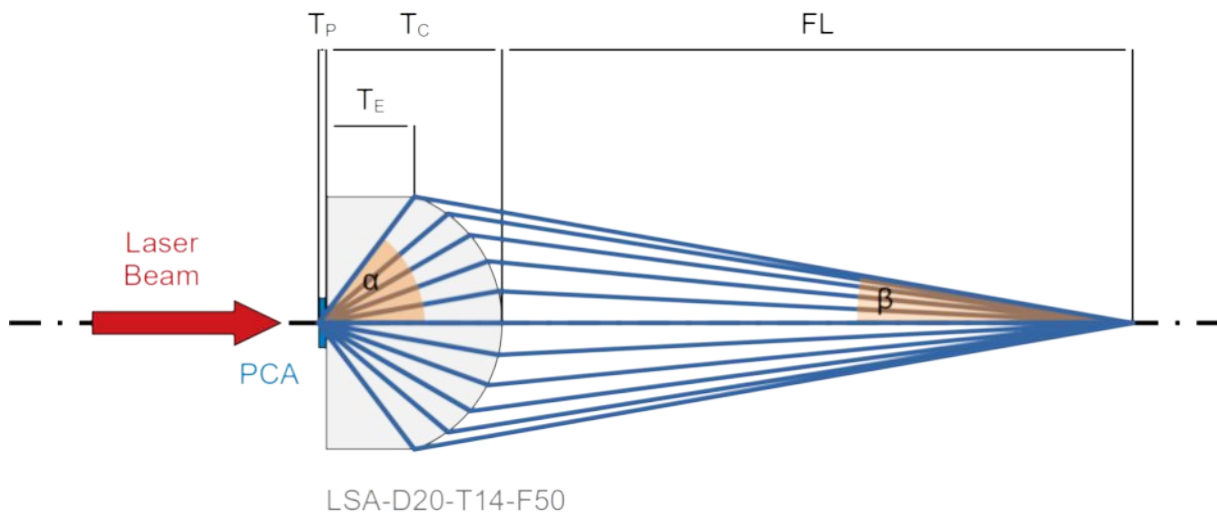


Figure 1: LSA-D20-T14-F50

Airy Disc Diameter

At 300 GHz	3.60 mm
At 1 THz	1.10 mm
At 3 THz	0.36 mm

4 Contact Details

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