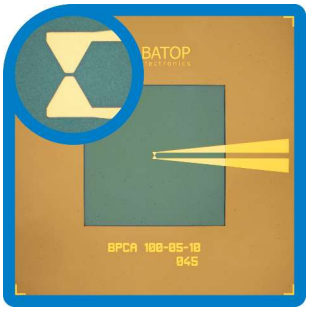
Photoconductive Antenna

- **Photoconductive antenna with LT-GaAs absorber layer**
- **Developed as Terahertz emitter and receiver antenna**
- **Designed for laser wavelength 780 / 1060 / 1560 nm**
- **Various gap dimensions and geometries available**
- **Various mounting options available**

Parallel-Line Antenna

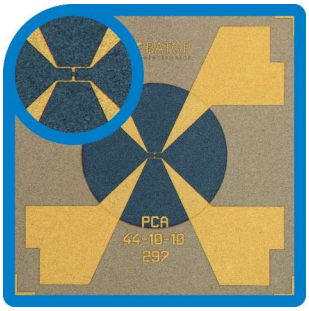
Recommended as	Emitter
Recom. optical power	10 mW
Max. sensitivity	@ 1.0 THz
Bandwidth (10 dB)	2.5 THz (typ.) / 60 THz (max.)
THz power	80 µW (avg.) / 1 W (peak)

Bow-Tie Antenna

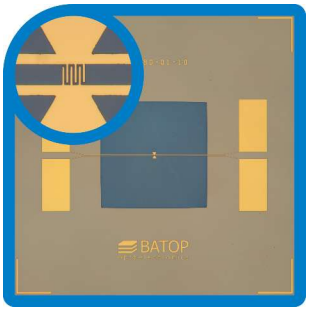


Recommended as	Detector
Recom. optical power	10 mW
Max. sensitivity	@ 0.7 THz
Bandwidth (10 dB)	1.6 THz (typ.)
THz power	25 µW (avg.)

Antennas with Special Design



Butterfly



Finger Gap

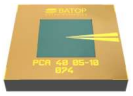
Spiral

BATOP GmbH – Stockholmer Straße 14 – 07747 Jena – Germany – Phone: +49 3641-6340090 – E-Mail: info@batop.de
www.batop.de

Mounting Options

Unmounted PCA Chip

- Chip size: 4 x 4 mm
- Chip thickness: 625 µm



Mounted on a Silicon Lens

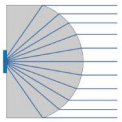
- For free space laser excitation
- Aluminium mount (Ø 25.4 mm)
- 1 m coaxial cable with BNC plug

Add-Ons

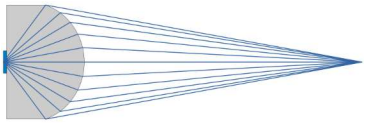
Available Geometries

- Hyperhemispheric

- Collimating



- Focusing



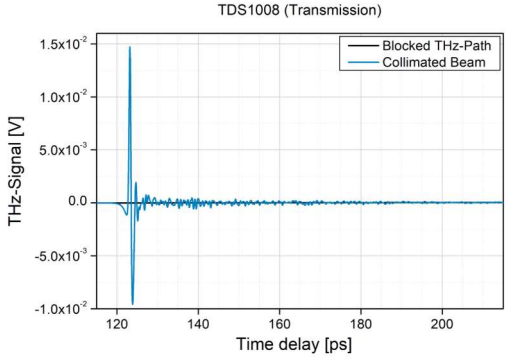
Plus
Focusing Asphere

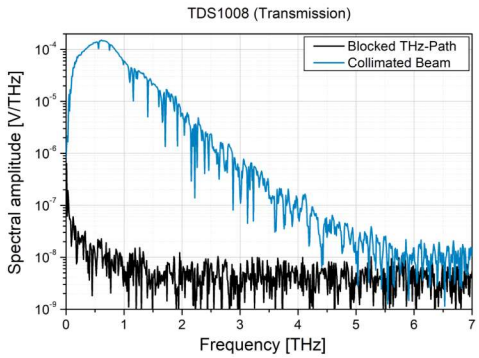
- For free space laser excitation
- Aluminium mount (Ø 25.4 mm)
- Aligned focusing asphere
- 1 m coaxial cable with BNC plug

Plus
Fiber Coupling

- For fiber-coupled laser excitation
- Aluminium lens tube (Ø 30.5 mm)
- Aligned fiber coupling
- 1.5 m coacial cable with BNC plug
- 1.5 m optical fiber with FC/APC

THz Signal & Spectrum





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