
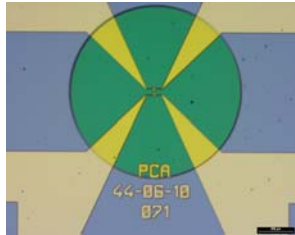



PCA – photo conductive antenna

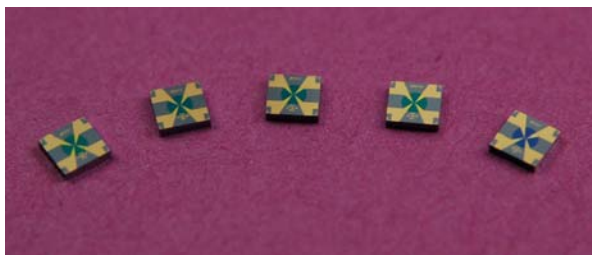
BATOP GmbH
 Wildenbruchstrasse 15
 07745 Jena, Germany

Phone: +49 3641 634009 - 0
 Fax: +49 3641 634009 - 20
 URL: <http://www.batop.de>
 e-mail: info@batop.de

- THz generation and detection
- time-domain-spectrometer
- cw photomixer
- ***New: optional with prealigned collimating or focusing aspheric silicon lens !***

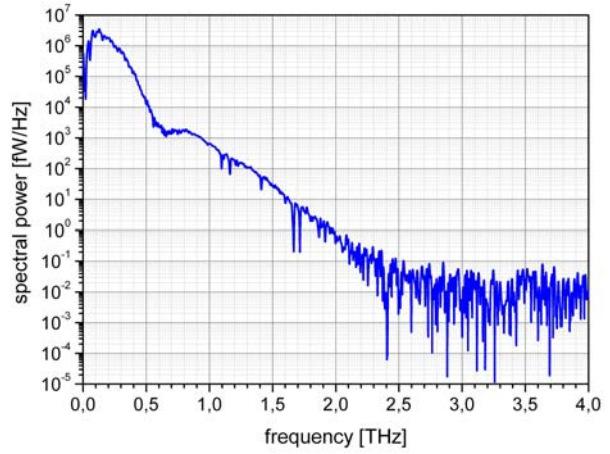
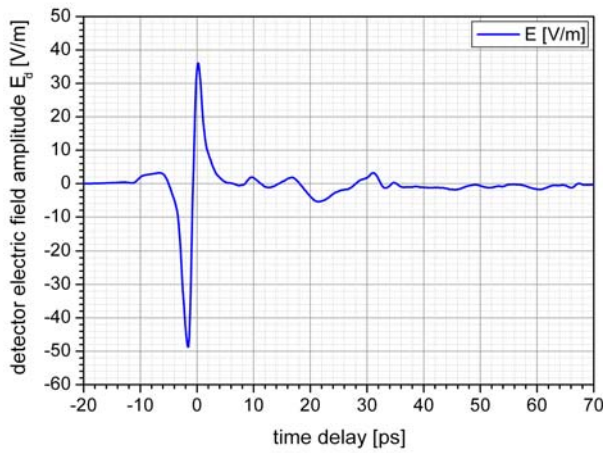
product	parallel line antenna PCA-40-05-10-X	butterfly antenna PCA-44-06-10-X	bow-tie antenna PCA-870-05-10-X
			
application	<ul style="list-style-type: none"> ▪ broadband emitter up to 5 THz 	<ul style="list-style-type: none"> ▪ highly efficient detector (0.1 - 4 THz) ▪ efficient GHz emitter (10 - 500 GHz) 	<ul style="list-style-type: none"> ▪ highly efficient detector (0.1 - 4 THz)
laser wavelength	800 nm, 1060 nm, 1550 nm		

Other wavelengths and parameters on request.



fiber coupled antennas with focusing aspheric silicon substrat lens

THz-spectrum:



Emitter: parallel line antenna PCA 40-05-10-1060 / Detector: butterfly antenna PCA 44-06-10-1030 / laser: 1064nm, 120 fs, 100 mW

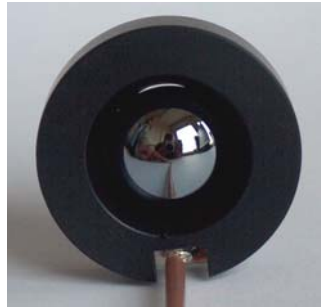
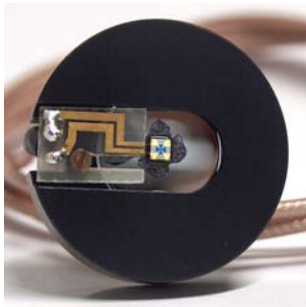
Mounting:

1. unmounted chip
2. mounted on 25.4 mm diameter black aluminium mount with prealigned hyperhemispherical silicon substrat lens \varnothing 12 mm (optional with collimating or focusing aspheric silicon substrat lens) and 1 m coaxial cable (RG 178) with BNC or SMA connector

front view on mounted PCA (laser side)

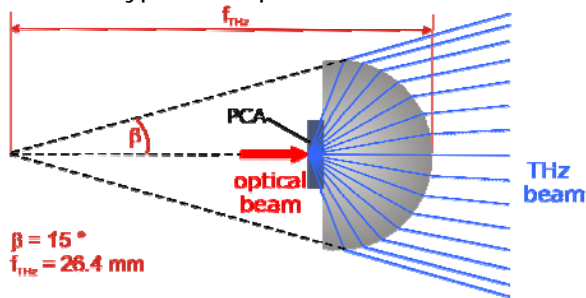
back view with silicon lens

complete PCA with BNC - connector

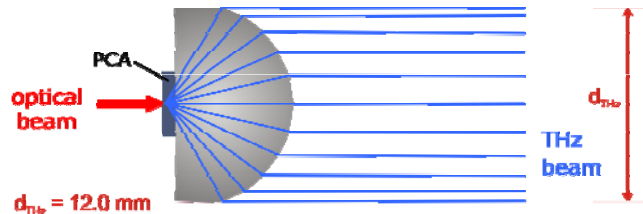


silicon substrat lens option:

1. hyperhemispherical silicon lens



2. collimating aspheric silicon lens



3. aspheric focusing silicon lens

