

Data Sheet PCA-40-05-10-800

Photoconductive THz antenna for laser excitation wavelength ~ 800 nm



PCA – Photo Conductive Antenna

Table of Contents

Page

1	PCA Performance.....	1
2	PCA Parameter.....	2
3	PCA Design.....	2
4	Contact Details.....	3

1 PCA Performance

Performance of the recommended PCA combination:

PCA-40-05-10-800 (Emitter) & bPCA-100-05-10-800 (Detector)

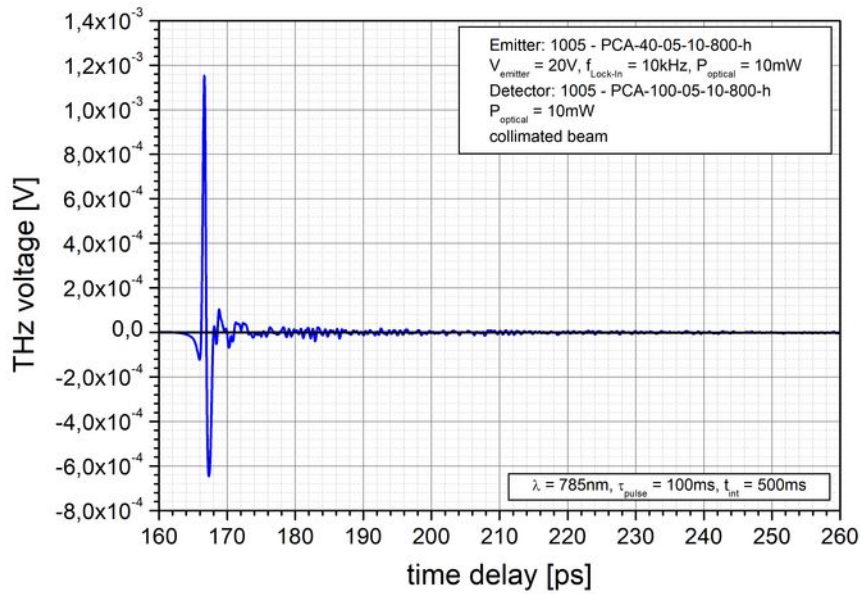


Figure 1: THz signal

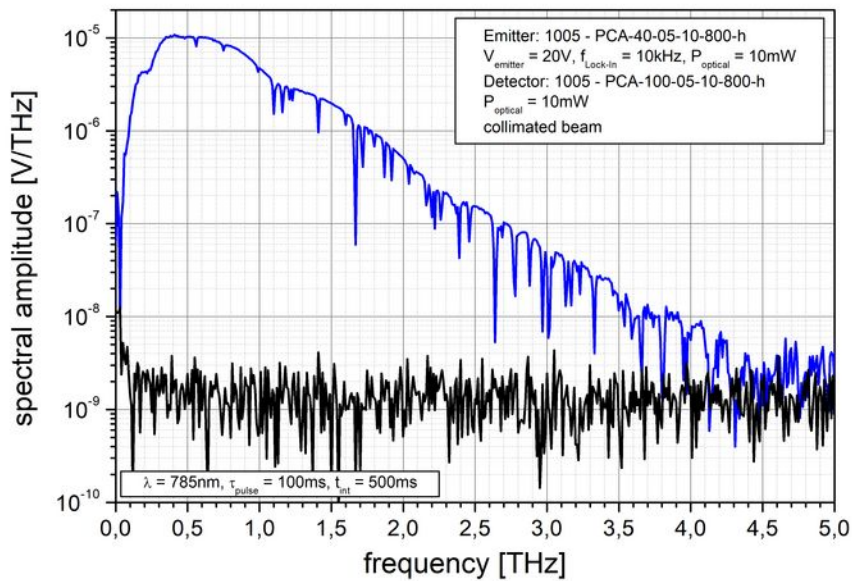


Figure 2: THz spectrum

2 PCA Parameter

Table 1: PCA Parameter

Parameter	Ratings
Dark resistance	> 2 MΩ
Voltage	max. 20 V
Optical power ¹	10 mW (max. 15 mW)

3 PCA Design

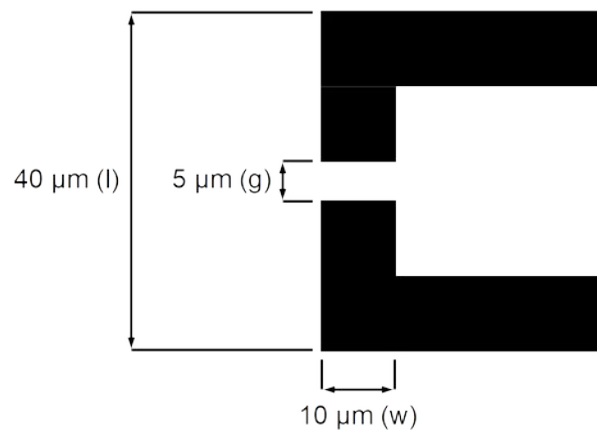


Figure 3: PCA dimensions

- l Antenna Length
- g Gap Distance
- w Gap Width

¹ Repetition rate of 70 – 100 MHz

4 Contact Details

BATOP GmbH
Stockholmer Straße 14
07747 Jena
Germany

E-Mail: info@batop.de (Sales)
 thz@batop.de (Support)
Phone: +49 3641 634009 0
Fax: +49 3641 634009 20