

PCA - Photoconductive Antenna for Terahertz waves, $\lambda \sim 800$ nm

Photoconductive antennas with LT-GaAs absorber layer

Poster (pdf)

- [PCA survey](#)
- [THz antenna mounting options](#)
- [Adjustment manual for THz spectrometer](#)
- [Optical adjustment for single gap antenna](#)
- [THz beam guiding](#)

PCA order information:

Part-No description: PCA-l-g-w- λ -x

- l - antenna length
- g - gap distance
- w - gap width
- λ - laser wavelength
- x - [mounting options](#)

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- [Interdigital array antenna](#)
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Parallel-line antenna

- Large bandwidth
- Low signal amplitude
- Recommended as emitter



[details](#) PCA-40-05-10-800-x

[details](#) PCA-60-05-10-800-x

Bow-tie antenna

- Moderate bandwidth
- High signal amplitude
- Recommended as detector



[≡ details](#) bPCA-100-05-10-800-x

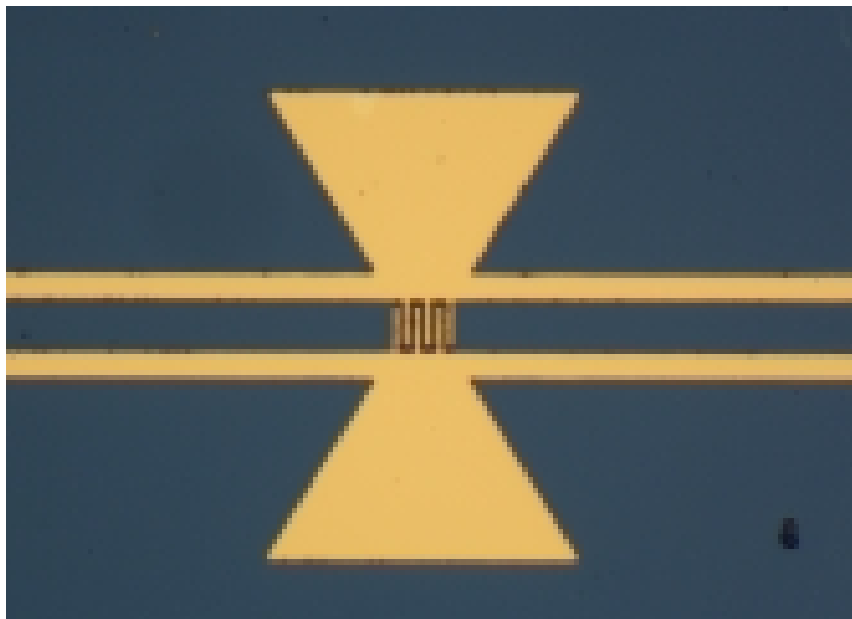
[≡ details](#) bPCA-180-05-10-800-x

[≡ details](#) bPCA-870-05-10-800-x

[≡ details](#) bPCA-3000-05-10-800-x

Bow-tie antenna with finger gap

- Moderate bandwidth
- For low optical power
- Recommended as emitter and detector



[≡ details](#) PCA-90-01-10-800-x

[≡ details](#) PCA-180-01-10-800-x

Logarithmic spiral antenna

- Low bandwidth
- Large signal amplitude
- Rotating polarization direction
- Recommended as emitter and detector



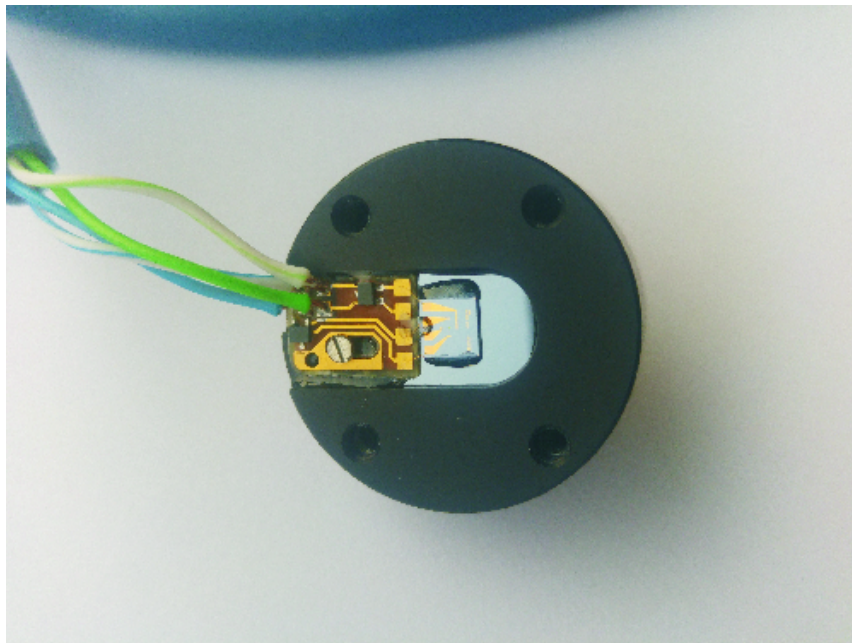


[≡ details](#) SPCA-4Pi-05-3000-800-x

[≡ details](#) SPCA-5Pi-05-3000-800-x

Crossed dipole antenna

- Changeable polarization direction
- Four electrical contacts
- Large bandwidth
- Emitter and detector



[≡ details](#) cPCA-1000-05-05-800-x

Butterfly antenna

- Small bandwidth
- Large signal amplitude
- Recommended as detector





[≡ details](#) PCA-44-06-10-800-x

[≡ details](#) PCA-44-16-16-800-x

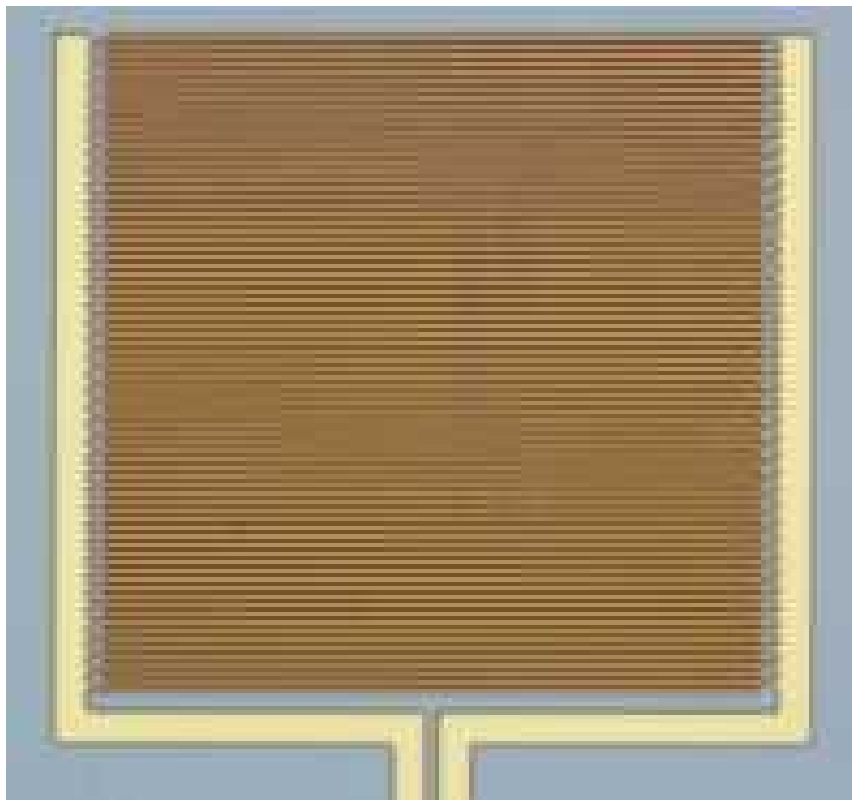
[≡ details](#) PCA-44-34-100-800-x

[≡ details](#) PCA-30-10-10-800-x

[≡ details](#) PCA-30-14-14-800-x

Interdigital array antenna

- Large bandwidth
- High signal amplitude
- Needs large optical power
- Emitter and detector



[≡ details](#) iPCA-21-05-300-800-x

[≡ details](#) iPCA-21-05-1000-800-x

Mounting options x & price

- x = 0: unmounted PCA chip
- x = h: on hyperhemispherical Si-lens
- x = c: on collimating Si-lens
- x = a: on aspheric focusing Si-lens
- x = c-f: fiber coupled

[≡ details](#)

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tional options

- Mounted TPX lenses
- Mounted focusing optical lens (-l)
- Pulse stretcher (PS-800)
- XYZ Translation Stage

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