PCA - Photoconductive Antenna for Terahertz waves, λ ~ 1060 nm

Photoconductive antennas with LT-InGaAs absorber layer

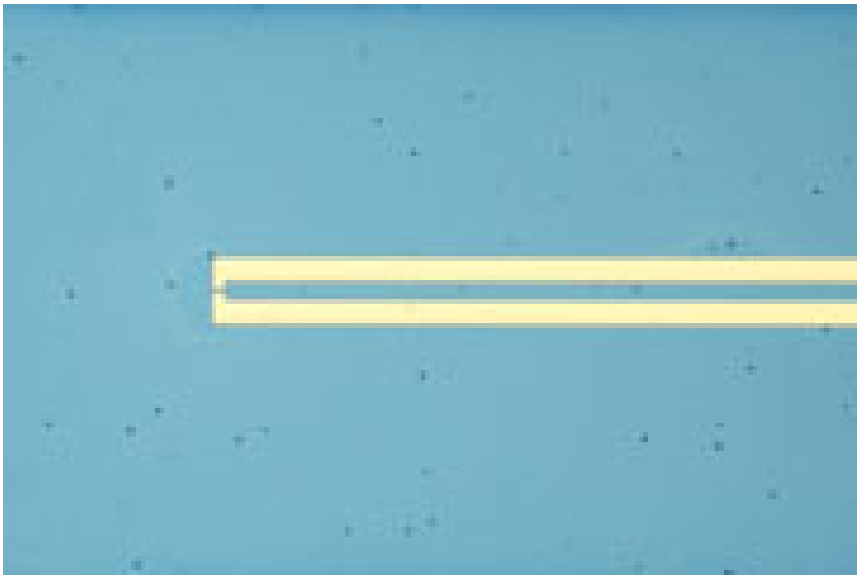
Poster (pdf)
- PCA survey
- THz antenna mounting options
- Adjustment manual for THz spectrometer
- Optical adjustment for single gap antenna
- THz beam guiding

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

Page content:

Parallel-line antenna

- Large bandwidth
- Low signal amplitude
- Recommended as emitter



≡ details PCA-40-05-10-1060-x

Bow-tie antenna

- Moderate bandwith
- High signal amplitude
- Recommended as detector

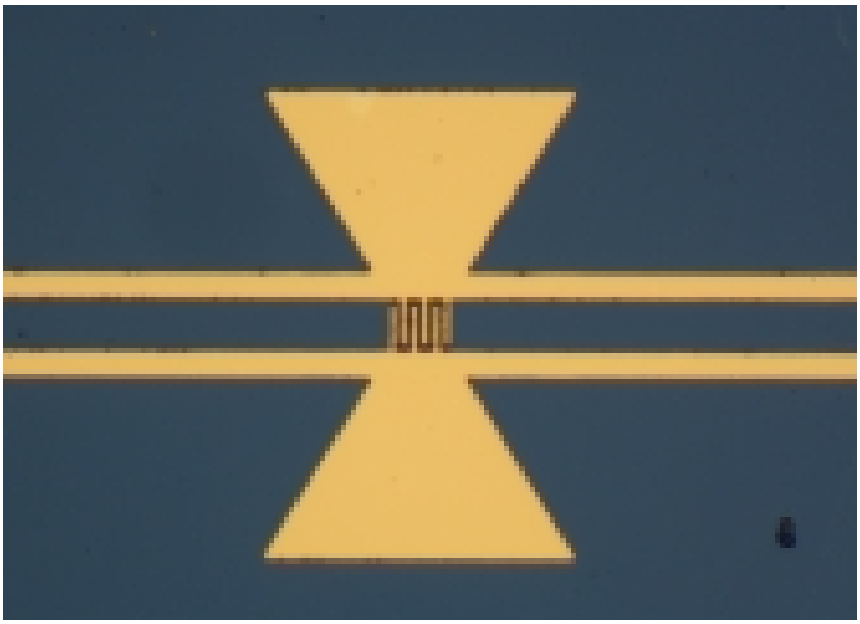
≡ details bPCA-100-05-10-1060-x

≡ details bPCA-180-05-10-1060-x

≡ details bPCA-3000-05-10-1060-x

Bow-tie antenna with finger gap

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



≡ details PCA-90-01-10-1060-x

Logarithmic spiral antenna

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

≡ details SPCA-4Pi-05-3000-1060-x

≡ details SPCA-5Pi-05-3000-1060-x

Butterfly antenna for wavelengths λ = 990 nm - 1060 nm

- Small bandwidth
- Large signal amplitude
- Recommended as detector

≡ details PCA-44-06-10-1030-x

≡ details PCA-44-16-16-1030-x

≡ details PCA-44-34-100-1030-x

≡ details PCA-30-10-10-1030-x

≡ details PCA-30-14-14-1030-x

Butterfly antenna for wavelengths λ = 1040 nm

- Small bandwidth
- Large signal amplitude
- Recommended as detector

≡ details PCA-44-06-10-1040-x

≡ details PCA-44-16-16-1040-x

≡ details PCA-44-34-100-1040-x

≡ details PCA-30-10-10-1040-x

≡ details PCA-30-14-14-1040-x

Mounting options x & price

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

Additional options

- Mounted TPX lenses ≡ details
- Mounted focusing optical lens (-l) ≡ details
- XYZ Translation Stage ≡ details