



*Sensors for radiation in the
Terahertz region*

RIFERIMENTI E LINK

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DESCRIPTION

Sensors for radiation in the Terahertz region, specifically at frequencies of 300 GHz and 800 GHz.

Either with raw output or integrated amplifier.

SPECIFICATIONS

Technology: CMOS 0.15 μm

Responsivity: 100-300 V/W

Noise Equivalent Power: 150 pW/ $\sqrt{\text{Hz}}$

On-chip amplification: available

ADVANTAGES & APPLICATIONS

- Industrial and production control, security mail/package scanning, scientific and research applications.

STATUS

- TRL 3/4 - Technology proof of concept has been proven, and initial validation has been performed in lab experiments in FBK.
- 2D array of detectors on a single chip under development.