

Schottky-structures for Space THz Technologies

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A novel fabrication process, so-called “Film-Diode (FD) process” has been developed at ACST GmbH for fabrication of discrete and monolithically-integrated Schottky-based structures. The process aims to achieve ultimate performance at millimeter (MM) and Sub-millimeter (SubMM) wavelengths. Excellent performance was realized in several MM/SubMM modules. Achieved results represent European state-of-the-art performance at these frequencies. Most of developed structures are included in an ESA preliminary reliability study for space qualification concerning MetOP SG mission.

This talk shall give a short overview on developed FD-process, fabricated Schottky-structures, and achieved performance.

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