

Millimetre-wave detectors for direct detection radiometers

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Abstract

This paper reports on the activities carried out by Airbus DS SAS, OMMIC SAS and ACST GmbH during the ESA study “Micro and Millimetre-Wave Detectors” A081ET03. Two European technologies for direct detection have been developed and detectors have been designed, manufactured and characterized up to 166GHz, with performances comparable to non-European devices.