

# Abstracts

## A Zero-Bias GaAs Millimeter Wave Integrated Detector Circuit

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C.C. Chang, D.L. Lynch, M.D. Sohigian, G.F. Anderson, T. Schaffer and G.I. Roberts. "A Zero-Bias GaAs Millimeter Wave Integrated Detector Circuit." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 206-208.

A monolithic GaAs millimeter wave diode detector circuit has been developed. A novel zero-bias detector diode is integrated with Ta<sub>2</sub>N resistors and a Si<sub>3</sub>N<sub>4</sub> capacitor on a chip 440 μm x 500 μm in size. Excellent detector performance has been demonstrated through 40 GHz.

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