

Abstracts

GaAs Monolithic Integrated Microwave Power Sensor in Coplanar Waveguide Technology (1996 [MCS])

A. Dehe, H. Klingbeil, V. Krozer, K. Fricke, K. Beilenhoff and H.L. Hartnagel. "GaAs Monolithic Integrated Microwave Power Sensor in Coplanar Waveguide Technology (1996 [MCS])." 1996 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 98. (1996 [MCS]): 179-182.

We present the fabrication technology, theoretical and experimental results of a novel MMIC compatible broadband power sensor. With a 50 Ohm coplanar waveguide design, integrated AlGaAs thermoelectric sensor and GaAs bulk micromachined membrane for increased sensitivity this sensor is capable of detecting RF power with a sensitivity of 1.1V/W without any waveguide coupling structure.

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