

## GaAs Monolithic Integrated Microwave Power Sensor in Coplanar Waveguide Technology

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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 MTT-S International Microwave Symposium Digest 96.1 (1996 Vol. I [MWSYM]): 161-164.

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.

 [Return to main document.](#)