Abstracts

Micromachined 60 GHz GaAs power sensor with integrated receiving antenna

K. Mutamba, K. Beilenhoff, A. Megej, R. Dorner, E. Genc, A. Fleckenstein, P. Heyman, J. Dickmann, C. Woelk and H.L. Hartnagel. "Micromachined 60 GHz GaAs power sensor with integrated receiving antenna." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 2235-2238 vol.3.

A micromachined 60 GHz GaAs power sensor with a monolithically-integrated receiving antenna is presented. In this sensor configuration the thermoelectrical properties of AlGaAs-GaAs heterostructures are used, so that no external DC power supply is needed. First measurements with separate sensor and antenna structures on the same chip have shown a broadband sensor response as well as an excellent matching between the antenna and the sensor input.

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