

Abstracts

RF power detector using a silicon MOSFET

M. Ratni, B. Huyart, E. Bergeault and L. Jallet. "RF power detector using a silicon MOSFET." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 1139-1142.

This paper presents a novel approach for RF power measurements using a silicon MOSFET. It describes linear and nonlinear models of the RF MOSFET for results prediction. It shows a thorough comparison between predicted and measured results. The detector demonstrates a better sensitivity than biased Schottky diode detectors that we have measured.

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