Abstracts

A 22 Percent C.W. Efficiency Solid State Microwave Oscillator

B. Kramer, A. Farrayre, L. Hollan, E. Constant and G. Salmer. "A 22 Percent C.W. Efficiency Solid State Microwave Oscillator." 1972 G-MTT International Microwave Symposium Digest of Technical Papers 72.1 (1972 [MWSYM]): 187-190.

Operation of GaAs Schottky-barrier IMPATT diodes is reported. We describe the technology, the electrical characterization and the microwave coaxial measurements. Efficiencies of 22% at 6.5 GHz and 18.5% at 12 GHz were obtained. Computer calculations indicate that the efficiency of these devices may be considerably higher.

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