Abstracts

Microstrip Varactor-Tuned Millimeter-Wave IMPATT Diode Oscillators (Dec. 1975 [T-MTT])

E.J. Denlinger, J. Rosen, E. Mykietyn and E.C. McDermott, Jr.. "Microstrip Varactor-Tuned Millimeter-Wave IMPATT Diode Oscillators (Dec. 1975 [T-MTT])." 1975 Transactions on Microwave Theory and Techniques 23.12 (Dec. 1975 [T-MTT] (1975 Symposium Issue)): 953-958.

Varactor-tuned millimeter-wave IMPATT diode oscillators in microstrip form using chip-mounted diodes are described. A nearly level output power of 28 ± 8 mW was achieved over a 6-GHz tuning range. Tunable bandwidths as high as 8 GHz with 6-26 mW of power were obtained from a single source. P-type epitaxial silicon IMPATT diodes were used for both the active device and the tuning varactor functions.

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