

Abstracts

Design and Performance of I-Band (8-10-GHz) TRAPATT Diodes and Amplifiers

C.H. Oxley, A.M. Howard and J.J. Purcell. "Design and Performance of I-Band (8-10-GHz) TRAPATT Diodes and Amplifiers." 1979 Transactions on Microwave Theory and Techniques 27.5 (May 1979 [T-MTT] (Special Issue on Solid-State Microwave/Millimeter-Wave Power Generation, Amplification, and Control)): 463-471.

The design and fabrication of I-band silicon TRAPATT diodes are described, and the results of both oscillator and amplifier measurements are presented. The paper includes details of the design and characterization of a cascaded three-stage TRAPATT amplifier.

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