

Abstracts

Y-Band (170-260 GHz) Tunable CW IMPATT Diode Oscillators (Dec. 1977 [T-MTT])

C. Chao, R.L. Bernick, E.M. Nakaji, R.S. Ying, K.P. Weller and D.H. Lee. "Y-Band (170-260 GHz) Tunable CW IMPATT Diode Oscillators (Dec. 1977 [T-MTT])." 1977 Transactions on Microwave Theory and Techniques 25.12 (Dec. 1977 [T-MTT] (1977 Symposium Issue)): 985-991.

This paper describes circuit, packaging, and device techniques used in the development of tunable CW IMPATT diode oscillators in the 170-260 GHz range. A quartz standoff package with optimum values for parasitics has been developed. A tuning range of nearly 30 GHz has been achieved with an IMPATT diode in such a package.

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