

Abstracts

Highly Stabilized IMPATT Oscillators at Millimeter Wavelengths (Short Papers)

S. Nagano and S. Ohnaka. "Highly Stabilized IMPATT Oscillators at Millimeter Wavelengths (Short Papers)." 1973 *Transactions on Microwave Theory and Techniques* 21.7 (Jul. 1973 [T-MTT]): 491-492.

Highly stabilized IMPATT oscillators at millimeter wavelengths have been developed. The IMPATT diode is mounted in the coaxial-waveguide circuit at the detuned open position, and is series-resonant at the design frequency. The frequency stability and power output of $\pm 5 \times 10^{-5}$ and 50 mW, respectively, have been obtained at 80 GHz.●

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