

# Abstracts

## Highly Stabilized IMPATT Oscillators at Millimeter Wavelengths (Short Papers)

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*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  $\pm 5 \times 10^{-5}$  /spl mnplus/20°C and 50 mW, respectively, have been obtained at 80 GHz. •

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