

Abstracts

Highly Stable, Low Noise Millimeter-Wave IMPATT Oscillator (Technical Notes) (Feb. 1978 [T-MTT])

H. Okamoto, M. Ikeda, S. Kodaira and K. Miyazawa. "Highly Stable, Low Noise Millimeter-Wave IMPATT Oscillator (Technical Notes) (Feb. 1978 [T-MTT])." 1978 Transactions on Microwave Theory and Techniques 26.2 (Feb. 1978 [T-MTT]): 136-136.

A highly stable and low noise IMPATT oscillator at 75 GHz is realized by using the parametric injection locking technique along with an AFC circuit in which a crystal oscillator is used as a reference. Noise level of this oscillator is lower by 25 dB as compared with that of the free-running IMPATT oscillator and the frequency stability is as good as $10/\sup{-8}/^{\circ}\text{C}$.

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