

Abstracts

Bias Frequency Modulation of GaAs Millimeter-Wave Diode Oscillators (Short Papers)

M.J. Lazarus, K.Y. Cheung, S. Novak and A.M. Sokullu. "Bias Frequency Modulation of GaAs Millimeter-Wave Diode Oscillators (Short Papers)." 1975 Transactions on Microwave Theory and Techniques 23.8 (Aug. 1975 [T-MTT]): 700-703.

A method for estimation of FM bias modulation sensitivity of a Gunn-diode oscillator is presented under the assumption of incomplete domain formation for a very short diode. Experimental measurements at 33 and 11.3 GHz are shown as compared with this estimate and the decrease of sensitivity with external Q, for modulation frequency high enough to eliminate thermal effects, is demonstrated.

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