

Abstracts

Noise Considerations in Self-Mixing IMPATT-Diode Oscillators for Short-Range Doppler Radar Applications

M.-S. Gupta, R.J. Lomax and G.I. Haddad. "Noise Considerations in Self-Mixing IMPATT-Diode Oscillators for Short-Range Doppler Radar Applications." 1974 Transactions on Microwave Theory and Techniques 22.1 (Jan. 1974 [T-MTT]): 37-43.

The influence of the oscillator noise on the minimum detectable signal of a Doppler radar with a self-mixing IMPATT-diode oscillator is evaluated. For very short-range radars, it is the AM noise which limits the signal-to-noise ratio and thus the range.

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