

Abstracts

Recent Advances in the Modelling and Performance of Millimeter Wave InP and GaAs VCO's and Oscillators

L.D. Cohen and E. Sard. "Recent Advances in the Modelling and Performance of Millimeter Wave InP and GaAs VCO's and Oscillators." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. I [MWSYM]): 429-432.

The use of a lumped element circuit form has provided a new means to model and quantify the equivalent circuit parameters of InP and GaAs Gunn VCO's and oscillators under large signal conditions. The modelling has resulted in excellent agreement between calculated and measured performance of wide-band VCO's and oscillators in the 26 to 60 GHz frequency range. New insights into device operation and performance will be presented.

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