

Abstracts

Figures of Merit for Characterizing FET Oscillators

O.A.A. Elnor, A. Jacob and K. Schunemann. "Figures of Merit for Characterizing FET Oscillators." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1265-1268.

Simple expressions characterizing FET oscillator performance are presented. A stability criterion has been derived in a fairly general way. New expressions for the loaded quality factor for both fundamental and harmonic-mode operation are given with expressions for the output PM noise. The results presented in this paper extend the well established analysis of one-port oscillators to two-port oscillators.

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