Abstracts

Microwave Noise Figure in MESFETs and HEMTs with Kink-Effect and (or) Parallel Conduction

J.A. Reynoso-Hernandez, L. Escotte, R. Plana and J. Graffeuil. "Microwave Noise Figure in MESFETs and HEMTs with Kink-Effect and (or) Parallel Conduction." 1992 MTT-S International Microwave Symposium Digest 92.1 (1992 Vol. I [MWSYM]): 289-291.

This paper considers the influence, on the microwave noise figure, of the kink effect often noticed in MESFETs and HEMTs and then of parallel conduction sometimes observed in HEMTs. It is found that kink effect impacts mostly on MESFET noise and that parallel conduction impacts on HEMT noise especially when operated at large drain current. Consequences on optimal bias conditions for low noise amplifiers are outlined.

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