Abstracts

Noise and Small-Signal Distributed Model of Millimeter-Wave FETs

L. Escotte, J.C. Mollier and M. Lecreff. "Noise and Small-Signal Distributed Model of Millimeter-Wave FETs." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 919-922.

This paper presents a distributed FET model for millimeter-wave frequencies and compares experimental S-parameters with distributed and lumped model. In contrast with other circuit models which take distributed effects into account, this new one allows to predict the four noise parameters up to 40 GHz. An example is given, that shows good agreement between theoretical data and S-parameters and noise figure measurements up to 26 GHz.

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