

Abstracts

Modelling and Evaluation of Dual Gate MESFETs as Low-Noise, Self-Oscillating and Image-Rejection Mixers

C. Tsironis, R. Stahlmann and R. Meierer. "Modelling and Evaluation of Dual Gate MESFETs as Low-Noise, Self-Oscillating and Image-Rejection Mixers." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 443-445.

The three principal modes of non linear operation of DGFET mixers are described and modelled in order to understand the mixing mechanism and optimize critical circuit and device parameters. Theoretical results are compared with experiments on a 12 GHz TV reception mixer with 8 dB conversion gain and 800 MHz bandwidth.

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