# Abstracts

## Comparison Between Simulations And Measurements Of Large Signal And Nonlinear Noise Behaviors Of MMIC Analog Frequency Divider By Two

*B. Branger, E. LaPorte, J.C. Nallatamby, M. Prigent and L. Lapierre. "Comparison Between Simulations And Measurements Of Large Signal And Nonlinear Noise Behaviors Of MMIC Analog Frequency Divider By Two." 1997 Microwave and Guided Wave Letters 7.5 (May 1997 [MGWL]): 127-129.*

For the first time, the large signal and nonlinear noise behaviors of an analog frequency divider has been fully simulated and measured: comparisons between predicted and measured results of this circuit are given. The circuit designed is a monolithic microwave integrated circuit (MMIC) X -band 8.2-4.1-GHz analog frequency divider by two. The large signal analysis relies on the open-loop method extended to synchronous systems. The simulation of noise behavior of such a circuit has been performed by means of the nonlinearities conversion matrices and noise generators correlation matrices analysis.

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