Abstracts

Large Signal Design of Broadband Monolithic Microwave Frequency Dividers

A. Suarez, R. Quere, M. Camiade and E. Ngoya. "Large Signal Design of Broadband Monolithic Microwave Frequency Dividers." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1595-1598.

A monolithic regenerative divider by two with a 6 GHz central input frequency has been designed and fully characterized using an improved harmonic balance formulation, suitable to deal with autonomous and phase-locked regimes. The solution paths when the input generator power and frequency are modified have been traced. The output power at the divided frequency has been evaluated as a function of both parameters as well as the output power of the free running oscillator regime. Every result has been experimentally verified observing an excellent agreement.

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