Abstracts

Large-Signal Stability and Spectrum Characterization of a Medium Power HBT Using Active Load-Pull Techniques

F.M. Ghannouchi, F. Beauregard and A.B. Kouki. "Large-Signal Stability and Spectrum Characterization of a Medium Power HBT Using Active Load-Pull Techniques." 1994 Microwave and Guided Wave Letters 4.6 (Jun. 1994 [MGWL]): 191-193.

Large-signal stability and spectrum characterizations of a half-Watt HBT at 2 GHz for a class AB bias point are reported in this letter. Constant power, constant power-added efficiency, constant current gain contours, and second and third harmonic generation level contours over the whole Smith chart are presented. The characterization setup is an automated high power, multi-harmonic, active load-pull system that is based on six-port techniques and frequency discrimination using a controlled band pass YIG filter.

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