

Abstracts

Stability and Improved Circuit Modeling Considerations for High Power MMIC Amplifiers (1988 [MCS])

R.G. Freitag, S.H. Lee, D.M. Krafcsik, D.E. Dawson and J.E. Degenford. "Stability and Improved Circuit Modeling Considerations for High Power MMIC Amplifiers (1988 [MCS])." 1988 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 88.1 (1988 [MCS]): 125-128.

The cluster matching approach for large periphery power FETs brings with it certain problems including more complex circuitry and new modes of possible oscillations. This paper offers some solutions to these problems including an analysis of the modes along with methods of suppression and improved circuit modeling. These solutions were implemented the design of a two-stage, 1.6 W monolithic power amplifier which will also be discussed.

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