

Abstracts

Stability and Improved Circuit Modeling Considerations for High Power MMIC Amplifiers (1988 Vol. I [MWSYM])

R.G. Freitag, S.H. Lee, D.M. Krafcik, D.E. Dawson and J.E. Degenford. "Stability and Improved Circuit Modeling Considerations for High Power MMIC Amplifiers (1988 Vol. I [MWSYM])." 1988 MTT-S International Microwave Symposium Digest 88.1 (1988 Vol. I [MWSYM]): 175-178.

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 in the design of a two-stage, 1.6 W monolithic power amplifier which will also be discussed.

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