Abstracts

A Broad-Band Amplifier Output Network Design (Short Papers)

A.N. Riddle and R.J. Trew. "A Broad-Band Amplifier Output Network Design (Short Papers)." 1982 Transactions on Microwave Theory and Techniques 30.2 (Feb. 1982 [T-MTT]): 192-196.

An analytic design method for a lossy gain-compensating network is presented and the advantages of lossy networks are discussed. Examples of two-stage amplifiers using FET's and bipolar transistors are presented to show the feasibility of this particular network in low power amplifier designs. These amplifiers obtain gains of 15.4±0.5 dB with a 2.5-dB maximum noise figure in the 4.0--6.0-GHz frequency range and 16.5±1.2 dB with a maximum input VSWR of 1.78:1 over the 1.0--2.0-GHz frequency range, respectively.

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