Abstracts

GaAs Monolithic Low-Power Amplifiers with RC Parallel Feedback (Short Papers)

J. Tajima, Y. Yamao, T. Sugeta and M. Hirayama. "GaAs Monolithic Low-Power Amplifiers with RC Parallel Feedback (Short Papers)." 1984 Transactions on Microwave Theory and Techniques 32.5 (May 1984 [T-MTT]): 542-544.

GaAs monolithic broad-band low-power-dissipated amplifiers with inductive/resistive load and RC parallel feedback circuits have been developed. An inductive load amplifier provides a gain of 8 dB, a 3-dB bandwidth of 2.5 GHz, and a noise figure of 2.7 dB at 1 GHz with less than + 1-V supply voltage and very low-power dissipation of 20 mW. A resistive load two-stage amplifier provides a gain of 15 dB and a 3-dB bandwidth of 2 GHz. Input and output reflection coefficients at 1 GHz are -13 dB and -21 dB, respectively.

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