Abstracts

An L-Band Temperature Compensated Ultra Low Power Successive Detection Logarithmic Amplifier

R. Michels, N. Scheinberg and J. Gluck. "An L-Band Temperature Compensated Ultra Low Power Successive Detection Logarithmic Amplifier." 1989 MTT-S International Microwave Symposium Digest 89.2 (1989 Vol. II [MWSYM]): 541-544.

This paper describes a temperature compensated L-band GaAs MMIC successive detection logarithmic amplifier (SDLA) featuring ultra low power consumption. Log-linearity of ±2.5 dB and a dynamic range of 60 dB was achieved over a 100 degree temperature range. This device shows no sacrifice of performance over larger, labor intensive hybrid MIC approaches.

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