Abstracts

Extremely Low Power Transmitter/Receiver GaAs MMIC Circuits at L Band

A. Platzker, J.B. Cole, S. Davis, M. Goldfarb, K. Tabatabaie-Alavi and J. Wendler. "Extremely Low Power Transmitter/Receiver GaAs MMIC Circuits at L Band." 1992 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 92.1 (1992 [MCS]): 97-100.

We have developed an Enhancement GaAs MMIC process which is capable of producing very low power, highly efficient transmitting receiving circuits which can be operated from unipolar 3 V batteries. We have demonstrated key circuits such as a SAW locked oscillator, a Variable Gain 180° Phase Shifter and a Variable Gain Power Amplifier. The amplifier draws a dc current of 4 mA and delivers 4 dBm to 50 Omega loads with greater than 25 dB of gain.

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