

Abstracts

Miniaturized Low Noise Variable MMIC Amplifiers with Low Power Consumption for L-Band Portable Communication Applications

S. Hara, K. Osato, A. Yamada, T. Tsukao and T. Yoshimasu. "Miniaturized Low Noise Variable MMIC Amplifiers with Low Power Consumption for L-Band Portable Communication Applications." 1993 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 93.1 (1993 [MCS]): 67-70.

Miniaturized L-band low noise variable gain amplifiers are demonstrated for portable mobile communication equipment applications. The fabricated MMICs use D-mode GaAs MESFETs and need only positive bias. The amplifier has a noise figure of 3 dB and a gain of 14 dB. The chip size is approximately 1 mm x 1 mm and the current dissipation is only 1.8 mA.

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