

Abstracts

A Low Cost, 3-7 GHz, 1/2 Watt MMIC GaAs Amplifier

S.B. Moghe and R. Genin. "A Low Cost, 3-7 GHz, 1/2 Watt MMIC GaAs Amplifier." 1986 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 86.1 (1986 [MCS]): 9-12.

A low cost, 3-7 GHz, 1/2 Watt MMIC GaAs amplifier has been successfully designed and tested. The amplifier features small chip size (1.2 mm sq.), high gain (12 ± 1.5 dB), high power added efficiency (20%), good RF yield (57%) and high tolerance to process variations.

Packaged amplifiers were built with this chip for both the 2-6 GHz and the 5.9-6.4 GHz bands. Saturated output power of 25 dBm was achieved in the 2-6 GHz band, and 27 dBm in the 5.9-6.4 GHz band.

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