

Abstracts

A 3-Watt X-Band Monolithic Variable Gain Amplifier (1988 [MCS])

R.B. Culbertson and D.C. Zimmermann. "A 3-Watt X-Band Monolithic Variable Gain Amplifier (1988 [MCS])." 1988 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 88.1 (1988 [MCS]): 121-124.

The design and performance of a monolithic dual-gate GaAs FET 3-watt X-Band amplifier are discussed. The two-stage amplifier demonstrates 13 dB gain and over 20 percent power-added efficiency. Both large-signal and small-signal gain can be varied 20 dB while exhibiting less than +/-6 degrees insertion phase variation.

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