Abstracts

Large-Signal Design of MMIC High Efficient Power Amplifier

V.D. Hwang, Y.C. Shih and D.C. Wang. "Large-Signal Design of MMIC High Efficient Power Amplifier." 1990 MTT-S International Microwave Symposium Digest 90.2 (1990 Vol. II [MWSYM]): 773-776.

A large-signal two-stage power amplifier design approach using the Waveform-Balance method is presented. The MMIC amplifier designed by this technique is shown here to have a state-of-the-art power and efficiency performances at X-band. The amplifier has 40 percent bandwidth, 2 to 3 watt CW output power, 10 dB power gain, and greater than 30 percent power-added efficiency across most of the frequency band.

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