

# Abstracts

## A 2.5 Watt X-Band High Efficiency MMIC Amplifier

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*V.D. Hwang, Y.C. Shih, T.Y. Chi and D.C. Wang. "A 2.5 Watt X-Band High Efficiency MMIC Amplifier." 1990 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 90.1 (1990 [MCS]): 39-41.*

A broadband two-stage X-band high efficiency power amplifier using ion-implanted MMIC technology is presented. The amplifier has 2.3 to 2.9 watt CW output power, 31 to 35 percent PA efficiency and 11 dB power gain across the frequency band. These data represent a state-of-the-art performance for MMIC amplifier. The amplifier is a true monolithic circuit since it does not use any off-chip combining or tuning.

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