

# Abstracts

## An X-Band High-Efficiency Ion-Implanted MMIC Power Amplifier (1991 [MCS])

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*H. Le, Y.C. Shih, V. Hwang, T. Chi, K. Kasel and D.C. Wang. "An X-Band High-Efficiency Ion-Implanted MMIC Power Amplifier (1991 [MCS])." 1991 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 91.1 (1991 [MCS]): 89-91.*

A state-of-the-art X-band high efficiency monolithic power amplifier has been demonstrated. An average output power of 3.6 Watts at an average 41% power-added efficiency over a 40% bandwidth from 7.0 to 10.5 GHz has been achieved. An excellent average power density of 500 mW/mm and peak power density of 550 mW/mm has been measured across this bandwidth.

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