

Abstracts

Fully-Matched, High-Efficiency Q-Band 1 Watt MMIC Solid State Power Amplifier

Y. Hwang, P.D. Chow, J. Lester, J. Chi, D. Garske, M. Biedenbender and R. Lai. "Fully-Matched, High-Efficiency Q-Band 1 Watt MMIC Solid State Power Amplifier." 1996 MTT-S International Microwave Symposium Digest 96.1 (1996 Vol. I [MWSYM]): 149-152.

A fully-matched, high-efficiency Q-band 1 watt MMIC power amplifier has been developed. This chip utilized 2 mil-thick GaAs substrate to improve amplifier gain, power added efficiency and heat dissipation. 1 watt output power and 30% efficiency was achieved at 44 GHz.

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