

Abstracts

A W-Band Monolithic 175-mW Power Amplifier

H. Wang, Y. Hwang, T.H. Chen, M. Biedenbender, D.C. Streit, D.C.W. Lo, G.S. Dow and B.R. Allen. "A W-Band Monolithic 175-mW Power Amplifier." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 419-422.

A monolithic W-band power amplifier has been developed to promote the output power performance. This monolithic two-stage balanced power amplifier has demonstrated a small signal gain of 7 dB and an output power of 175 mW at 90 GHz, which represents state-of-the-art output power performance for a monolithic amplifier at this frequency. This monolithic chip is fabricated using 0.1- μ m AlGaAs/InGaAs/GaAs pseudomorphic power HEMT MMIC production process.

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