

Abstracts

A GaAs MCM Power Amplifier of 3.6 V Operation with High Efficiency of 49% for 0.9GHz Digital Cellular Phone Systems

K. Tateoka, A. Sugimura, H. Furukawa, M. Yuri, N. Yoshikawa and K. Kanazawa. "A GaAs MCM Power Amplifier of 3.6 V Operation with High Efficiency of 49% for 0.9GHz Digital Cellular Phone Systems." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 569-572.

Extremely small GaAs PA has been implemented using the AlN multilayer MCM for 0.9GHz digital cellular phones. The present PA exhibited the efficiency of 49% with drain supply voltage as low as 3.6V. The PA was designed to provide the matching circuits with the maximum gain at the input and the minimum intermodulation distortion at the output.

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