Abstracts

Highly Efficient, Very Compact GaAs Power Module for Cellular Telephone

Y. Ota, M. Yanagihara, T. Yokoyama, C. Azuma, M. Maeda and O. Ishikawa. "Highly Efficient, Very Compact GaAs Power Module for Cellular Telephone." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1517-1520.

A power module with high efficiency and small size has been developed for cellular telephones. The module, which is composed of a 2-stage amplifier with GaAs MESFETs and packaged into a very small volume of 0.8 cc, shows excellent RF characteristics of the output power P/sub out/ = 32.3 dBm and the power-added efficiency eta/sub add/ = 65 % at f = 930 MHz, P/sub in/ = 7 dBm, V/sub dd/ = 4.7 V. This power module has contributed to realization of compact cellular telephone.

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