Abstracts

A compact, high efficiency, 120 Watts GaAs power amplifier module for the 3rd generation cellular base stations

S. Morimoto, M. Maeda, T. Yokoyama, H. Ishida, M. Nakamura, Y.I. Ota and D. Ueda. "A compact, high efficiency, 120 Watts GaAs power amplifier module for the 3rd generation cellular base stations." 1999 MTT-S International Microwave Symposium Digest 99.1 (1999 Vol. I [MWSYM]): 325-328 vol.1.

A compact 120 W GaAs power amplifier module operating in 2.1-2.2 GHz frequency band has been developed. The output power of prematched GaAs chips was combined in simplified Wilkinson's circuit with significant features of small size and low loss. The developed amplifier module exhibited 123 W (103 W) output-power with a record high efficiency of 50% (54%) at drain voltage of 12 V (10 V) within a module size of as small as 36/spl times/70 mm/sup 2/.

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