Abstracts

0.1 CC 60% efficiency power amplifier multi-chip modules for personal digital cellular phones

T. Saso, Y. Hasegawa, Y. Saito and Y. Kakuta. "0.1 CC 60% efficiency power amplifier multi-chip modules for personal digital cellular phones." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1401-1404 vol.4.

0.1 cc high efficiency two-stage power amplifier multi-chip modules (PA MCM's) employing a novel resin multilayer printed circuit substrate and heterojunction FETs (HJFET's) has been successfully developed for 900 MHz band personal digital cellular phones. This power MCM with only 0.1 cc volume (7.0/spl times/7.0/spl times/2.0 mm/sup 3/) exhibited a power added efficiency of 60% with an adjacent channel leakage power of -49.25 dBc at an output of 30.0 dBm.

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