Abstracts

Current mode class-D power amplifiers for high efficiency RF applications (2001 Vol. II [MWSYM])

H. Kobayashi, J. Hinrichs and P.M. Asbeck. "Current mode class-D power amplifiers for high efficiency RF applications (2001 Vol. II [MWSYM])." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 939-942 vol.2.

We show that current mode class-D (CMCD) power amplifiers can achieve high efficiency at RF frequencies. In contrast with conventional voltage-mode class D amplifiers, the CMCD features "zero voltage switching" which eliminates the output capacitance discharge loss. Experimental CMCD amplifiers with 76.3% PAE at 290 mW output and 71.3% PAE at 870 mW output are demonstrated, using GaAs FETs at 900 MHz.

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