

Abstracts

Push/pull class-DE switching power amplifier

A. Alipov and V. Kozyrev. "Push/pull class-DE switching power amplifier." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1635-1638 vol.3.

The new class-DE of switching amplifiers is described. It combines the advantages of a push/pull class-D topology with some peculiarities of class-E operating, which allows one to exclude switching power losses. Transistors in a class-DE amplifier operate with underlappings, during which their shunt capacitances are recharged. Therefore it is possible to maintain high drain efficiency on higher frequencies, that is the operating frequency may be two to three times as large as in a push/pull class-D amplifier.

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