

Abstracts

A class-E power amplifier based on an extended resonance technique

A.L. Martin and A. Mortazawi. "A class-E power amplifier based on an extended resonance technique." 2000 Transactions on Microwave Theory and Techniques 48.1 (Jan. 2000 [T-MTT]): 93-97.

In this paper, a class-E power amplifier using four 1-W GaAs MESFET's at 935 MHz is demonstrated using a new extended resonance power-combining technique. A microstrip amplifier based on this technique was designed and fabricated which combines four 1-W Siemens CLY5 GaAs MESFET's with 67% power-added efficiency at 935 MHz.

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