

Abstracts

A low-cost class-E power amplifier with sine-wave drive

J.F. Davis and D.B. Rutledge. "A low-cost class-E power amplifier with sine-wave drive." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 1113-1116.

We present a 400 W class-E amplifier for industrial applications. The transistor is the International Rectifier IRFP450LC power MOSFET. The amplifier operates at 13.56 MHz and uses a drive level of 12 W to attain a drain efficiency of 86% and an overall efficiency of 84%. All harmonics are more than 40 dB below the carrier.

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