

Demonstration of a switchless Class E/F/sub odd/ dual-band power amplifier

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A 250 W dual-band power amplifier belonging to the Class E/F switching amplifier family is presented. The amplifier operates in the 7 MHz and 10 MHz HAM bands, achieving 16 dB and 15 dB gain with power added efficiencies (PAE) of 92% and 87% in those bands, respectively. It utilizes dual-resonant passive input and output networks to achieve high-efficiency Class E/F/sub odd/ operation at both frequencies of operation, allowing the same passive networks to be used for both frequency bands without the use of band-select switches.

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