

Abstracts

A 5-GHz High-Efficiency Class-E Oscillator

E.W. Bryerton, W.A. Shiroma and Z.B. Popovic. "A 5-GHz High-Efficiency Class-E Oscillator." 1996 Microwave and Guided Wave Letters 6. 12 (Dec. 1996 [MGWL]): 441-443.

A 5-GHz high-efficiency feedback oscillator using a class-E amplifier is presented. The oscillator is designed at 5.0 GHz for maximum conversion efficiency using only quasilinear simulation techniques. A maximum conversion efficiency of 59% is measured with an output power of 300 mW. The oscillator can also be biased for a maximum power of 600 mW with a conversion efficiency of 48%.

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