

Abstracts

A 100-Transistor Quadruple Grid Oscillator

W.A. Shiroma, B.L. Shaw and Z.B. Popovic. "A 100-Transistor Quadruple Grid Oscillator." 1994 Microwave and Guided Wave Letters 4.10 (Oct. 1994 [MGWL]): 350-351.

A three-dimensional power combiner consisting of four oscillator grids stacked in parallel is presented. The 5-GHz quadruple grid oscillator delivers an effective radiated power 6.5 dB greater than that of a single grid, with a corresponding frequency shift of less than 5%. Comparisons are made between a single, double, and quadruple grid oscillator.

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