Abstracts

Corporate and Tandem Structures for Combining Power from 3/sup N/ and 2N+1 Oscillators

S. Mizushina, H. Kondoh and M. Ashiki. "Corporate and Tandem Structures for Combining Power from 3/sup N/ and 2N+1 Oscillators." 1980 Transactions on Microwave Theory and Techniques 28.12 (Dec. 1980 [T-MTT] (1980 Symposium Issue)): 1428-1432.

The output power from three Gunn oscillators was combined using a short-slot coupler in conjunction with high-level injection locking with the power combining efficiency of ahout 100 percent at 9.7 GHz. Using the 3-oscillator structure as the building block, we constructed (3^2 = 9-oscillator corporate structure and (2X4+1=)9- and (2X6+1=)13-oscillator tandem structures to demonstrate power combining efficiencies of 92, 95, and 93 percent, respectively, at 9.6 GHz.

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