

Abstracts

A Corporate Structure for Combining Power from $3^{\text{sup}} N$ Oscillators

S. Mizushima, H. Kondoh and M. Ashiki. "A Corporate Structure for Combining Power from $3^{\text{sup}} N$ Oscillators." 1980 MTT-S International Microwave Symposium Digest 80.1 (1980 [MWSYM]): 168-170.

The output power from three Gunn oscillators was combined with a short-slot coupler with power combining efficiency of about 100 percent at 9.7 GHz. Using the 3-oscillator structure as the building-block, we constructed $(3^2=)9$ -oscillator corporate structure and $(2 \times 4 + 1 =)9$ -oscillator tandem structure to demonstrate power combining efficiency of 92 and 95 percent, respectively, at 9.6 GHz.

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