

Abstracts

A New N. FETS Oscillator-Combiner Using Tubular Dielectric Resonators

J.P. Joer, R. Quere and J. Obregon. "A New N. FETS Oscillator-Combiner Using Tubular Dielectric Resonators." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 597-600.

A new oscillator-combiner using two tubular dielectric resonators, coupled to N transistors, is presented. An equivalent "TE" representation having N branches is introduced allowing to derive easily the oscillation-condition. Experimental results obtained with three transistors have given an oscillator with 225 mW output power at 11 GHz without spurious modes. A combiner efficiency of 75% has been measured resulting in an overall oscillator efficiency of 15%.

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