

Abstracts

Multiple Element Oscillators Utilizing a New Power Combining Technique (1992 Vol. II [MWSYM])

A. Mortazawi and B.C. De Loach, Jr.. "Multiple Element Oscillators Utilizing a New Power Combining Technique (1992 Vol. II [MWSYM])." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 1093-1096.

A new method to generate high microwave and millimeter wave power by combining the output of many two or three terminal devices is presented. This method forms a single resonant structure from many active devices, and therefore the combiner is stable and does not suffer from simultaneous multimode difficulties. This technique produces compact structures and is readily adaptable to monolithic integration. Experimental results from several power combiners utilizing Gunn diodes are presented.

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