

Abstracts

1-W Millimeter-Wave Gunn Diode Combiner

Y.-E. Ma and C. Sun. "1-W Millimeter-Wave Gunn Diode Combiner." 1980 *Transactions on Microwave Theory and Techniques* 28.12 (Dec. 1980 [T-MTT] (1980 Symposium Issue)): 1460-1463.

A simple modular approach for combining many Gunn devices has been developed. By cascading the two diode wafer modules, output power of 1 W was achieved in the 45-GHz range from eight Gunn devices with combining efficiency greater than 90 percent. The overall dc-to-RF conversion efficiency of the eight-diode combiner was about 2 percent. The circuit adjustment was easy and no spurious oscillations were observed during the experiment.

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