

Abstracts

A Multi-Diode Cavity Power Combiner Using State-of-the-Art Pulsed Gunn Diodes

B.E. Sigmon and M. Ayyagari. "A Multi-Diode Cavity Power Combiner Using State-of-the-Art Pulsed Gunn Diodes." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 871-874.

Large area mesa pulsed Gunn diodes were developed. These diodes generated 30 to 40 watts per device. By combining multiples of these diodes in a miniature C-band cavity power combiner, 90 watts (3-diode combiner) and 150 watts (5-diode combiner) of peak power was achieved.

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