

Abstracts

A 16.5 Watt, 20 GHz IMPATT Diode Power Combiner

J. McClymonds. "A 16.5 Watt, 20 GHz IMPATT Diode Power Combiner." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 484-486.

Progress in the development of a 20 watt, 20 GHz power combiner with 5 percent bandwidth will be discussed. Six Raytheon high power GaAs double-drift diodes are used. Each diode has four mesas which are TC bonded to the heat-sink to achieve very low thermal resistance. A set of characterization data for the diodes and the combiner will be presented to demonstrate Raytheon's method for designing power combiners with large bandwidth.

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