

Abstracts

A 6-GHz 80-W GaAs FET Amplifier with TM-Mode Cavity Power Combiner

N. Okubo, Y. Kaneko, T. Saito and Y. Tokumitsu. "A 6-GHz 80-W GaAs FET Amplifier with TM-Mode Cavity Power Combiner." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 276-278.

A novel 8-way divider/combiner using TM₀₁₀- and TM₀₂₀-mode cavities was developed, with an insertion loss of 0.2 dB and a bandwidth of 600 MHz at 6 GHz. An 80-W broadband GaAs FET amplifier with combining efficiency of 85 percent was successfully demonstrated using this power divider/combiner.

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