

Abstracts

Power Generation and Efficiency in GaAs Traveling-Wave Amplifiers (Short Papers)

F. Giannini and A. Salsano. "Power Generation and Efficiency in GaAs Traveling-Wave Amplifiers (Short Papers)." 1975 Transactions on Microwave Theory and Techniques 23.5 (May 1975 [T-MTT]): 449-452.

The effect of the dielectric loading in a bidimensional GaAs traveling-wave amplifier (TWA) is investigated, with respect to the EM power generated by the structure and the efficiency of the dc to RF conversion. The validity of some usual approximations and assumptions is studied and a parameter, i.e., the power gain X efficiency product, is proposed as a useful tool for comparing the possible performances of TWA's.

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