

Abstracts

High Efficiency Read Diode Amplifier

W.C. Tsai, C.K. Kim and R.E. Gray. "High Efficiency Read Diode Amplifier." 1974 S-MTT International Microwave Symposium Digest of Technical Papers 74.1 (1974 [MWSYM]): 309-311.

Impedance characteristics of Read-profile IMPATT diodes are evaluated and amplifiers operating in the stable reflective mode have been designed based on the measured diode impedance. Power output of up to 4.5 Watts was obtained in a one stage single diode amplifier with a gain of 4.5 dB and an efficiency of 22 percent.

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