

Characterization and Design of GaAs MESFETs for Broadband Control Applications

R.J. Gutmann, D. Fryklund and D. Menzer. "Characterization and Design of GaAs MESFETs for Broadband Control Applications." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 389-392.

A variety of discrete and monolithically integrated GaAs MESFETs have been characterized for microwave switching figure-of-merit and power handling capability. Design principles for GaAs FETs in broadband switching applications are presented with an emphasis on tradeoffs between conducting-state resistance, non-conducting state capacitance and power handling. Switching frequency figure-of-merit values between 200 and 400 GHz have been achieved with 1 watt power handling capability.

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