

Abstracts

Constant Voltage Biasing of IMPATT Injection-Locked Oscillators

J.L. Chan. "Constant Voltage Biasing of IMPATT Injection-Locked Oscillators." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 218-220.

It is shown by analysis and experimental data that constant voltage biasing is practical with IMPATT oscillators. Constant-voltage biasing offers a lesser possibility of a thermal runaway, as compared to the conventional constant-current biasing. The price for this thermal advantage is a degradation of output power with elevating ambient temperature.

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