

Abstracts

Widebandwidth IMPATT and Gunn Voltage Tuned Oscillators

K.M. Johnson. "Widebandwidth IMPATT and Gunn Voltage Tuned Oscillators." 1972 G-MTT International Microwave Symposium Digest of Technical Papers 72.1 (1972 [MWSYM]): 185-186.

This paper describes circuit techniques for obtaining wide frequency tuning capability from IMPATT and Gunn devices using varactor tuning. Using the coaxial circuit described here, an IMPATT VTO with a half octave tuning bandwidth (35%) was developed and a Gunn oscillator with a 52% bandwidth was achieved. Similar results have been reported previously by Large for a Gunn device circuit. The circuit described here applies equally well to IMPATT devices.

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