

Abstracts

Monolithic IMPATT Millimeter-Wave Oscillator Stabilized by Open-Cavity Resonator

W.P. Shillue, S.-C. Wong and K.D. Stephan. "Monolithic IMPATT Millimeter-Wave Oscillator Stabilized by Open-Cavity Resonator." 1989 MTT-S International Microwave Symposium Digest 89.2 (1989 Vol. II [MWSYM]): 739-740.

A monolithic IMPATT oscillator operating in the 50 GHz region has been controlled in frequency in an open microwave resonator. Also, the noise spectrum of the oscillator in a closed quasi-optical cavity showed substantial improvement when compared to oscillation in free-space. These results show that monolithic circuits are compatible with open resonator techniques, and can lead to improved monolithic oscillator stability.

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