

Abstracts

93 GHz Self-Mixing Gunn Oscillator

J.A. Paul. "93 GHz Self-Mixing Gunn Oscillator." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 79-80.

Gallium Arsenide Gunn diodes have been used to develop self-mixing oscillators in the 94 GHz region. Experiments have been performed to measure conversion loss, excess noise, minimum detectable signal and IF impedance. The results are compared with balanced mixers and video detectors to place the self-mixing oscillator in proper perspective in terms of performance.

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