Abstracts

Mechanically Tuneable, Cavity-Stabilized, Millimeter-Wave IMPATT Oscillators

B. Owen. "Mechanically Tuneable, Cavity-Stabilized, Millimeter-Wave IMPATT Oscillators." 1977 MTT-S International Microwave Symposium Digest 77.1 (1977 [MWSYM]): 22-25.

The paper describes prototype results on mechanically-tuneable, cavity-stabilized, V-band and W-band impatt oscillators. The oscillators are easily tuned over a wide range of frequencies. The V-band oscillator has a 20% tuneable bandwith (54 GHz to 66 GHz) with 200 mW minimum output power. The W-band oscillator has a 14% tuneable bandwidth (95 GHz to 110 GHz) with 50mW minimum output power.

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