

Abstracts

Millimeter-Wave Monolithic GaAs IMPATT VCO (1988 [MCS])

N.L. Wang, W. Stacey, R. Brooks, K. Donegan and W. Hoke. "Millimeter-Wave Monolithic GaAs IMPATT VCO (1988 [MCS])." 1988 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 88.1 (1988 [MCS]): 59-62.

A monolithic voltage controlled oscillator (VCO) has been constructed using a GaAs double-drift Read IMPATT as the active element and a similar diode biased below breakdown as the varactor. The chip produced 120 mW peak power over an electronically controlled tuning range between 47 to 48 GHz. A computer analysis based on characterized circuit parameters has been used to predict the performance of the chip.

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