

Abstracts

Study of Fundamental Wave Injection Locking of MM-Wave Gunn Harmonic Oscillator Using Large Signal Model of Gunn Device

C. Ning, S. Zhong-Liang and L. Si-Fan. "Study of Fundamental Wave Injection Locking of MM-Wave Gunn Harmonic Oscillator Using Large Signal Model of Gunn Device." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. I [MWSYM]): 479-482.

A new large signal mathematical model of Gunn device at the state of harmonic operation is presented. The locking characteristic of fundamental wave injection locking of mm-wave Gunn harmonic oscillator is analyzed theoretically by using this model. The theoretical results have good agreement with experiment.

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