Abstracts

Phase-Locked Millimeter-Wave Two-Port Second-Harmonic Gunn Oscillators

R.G. Davis, M.J. Leeson, H.D.G. Lennon and M.J. Lazarus. "Phase-Locked Millimeter-Wave Two-Port Second-Harmonic Gunn Oscillators." 1991 Transactions on Microwave Theory and Techniques 39.10 (Oct. 1991 [T-MTT]): 1746-1747.

Two-port harmonic oscillators have been developed which are suitable for VCO operation in frequency stabilized systems. For wide-band tunable operation, an oscillator with a varactor-tunable fundamental cavity located vertically above the harmonic cavity has been constructed, and this oscillator has been stabilized in a phase-locked loop. An alternative bias-tuned in-line configuration is also reported which is on a single plane so that an integrated monolithic version is conceivable.

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