

Abstracts

A Millimeter-Wave, Third-Harmonic, Gunn VCO with Ultra-Wideband Tuning

L.D. Cohen. "A Millimeter-Wave, Third-Harmonic, Gunn VCO with Ultra-Wideband Tuning." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 937-938.

State-of-the-art ultra-wideband tuning (69 to 91 GHz) has been demonstrated with a third-harmonic, varactor-tuned, GaAs Gunn oscillator. The 22-GHz wide tuning band was obtained by tuning the voltage controlled oscillator (VCO) at fundamental frequency and using the in-situ generated Gunn-diode third harmonic for output. This is the first reported operation of a third-harmonic Gunn VCO.

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