# Abstracts

## Design and Performance of the Millimeter Wave DBR Gunn Oscillators

*L. Zong-Wen and Z. Wen-Xun. "Design and Performance of the Millimeter Wave DBR Gunn Oscillators." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 531-534.*

The operation principle and the design method of Distributed Bragg Reflector Gunn oscillators in the millimeter waveband are described based on the theory of coupled-modes in a dielectric grating region, the oscillator is constructed by an inverted-strip dielectric waveguide and an inserted Gunn diode. A practical oscillator with an output of 60~90 mW and 10/sup -5/~10/sup -6/ frequency stability at 36 GHz has been performed, the test results are in agreement with theoretical predictions.

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