

Abstracts

Simple Stabilizing Method for Solid-State Microwave Oscillators (Short Papers)

A. Kondo, T. Ishii and K. Shirahata. "Simple Stabilizing Method for Solid-State Microwave Oscillators (Short Papers)." 1974 *Transactions on Microwave Theory and Techniques* 22.11 (Nov. 1974 [T-MTT]): 970-972.

In the microwave solid-state oscillators using bulk effect and avalanche diodes, high dielectric constant ceramics have been used as a temperature compensator and excellent temperature stability is obtained. An X-band avalanche diode oscillator is tested over a wide temperature range. The frequency drift is improved to be less than +30 kHz/°C. Additional advantages of this technique are compact size and low cost.

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