

Dielectric-Resonator-Stabilized Second Harmonic Ka-Band Microstrip Gunn Oscillator

S. Zhong-Liang and C. Ning. "Dielectric-Resonator-Stabilized Second Harmonic Ka-Band Microstrip Gunn Oscillator." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 677-680.

In the present paper a Ka-band second harmonic microstrip Gunn oscillator stabilized by a dielectric resonator at its fundamental frequency has been investigated. The stabilized second harmonic output power of more than 10mw at Ka-band is observed. Pushing figure is lower than 300KHz/V. Mechanical tuning range is greater than 500 MHz. This oscillator can be used as a local oscillator in mm-wave integrated system.

 [Return to main document.](#)