Abstracts

Voltage Tuned Dielectric Resonance 20.5GHz Harmonic Oscillator with Novel Structure

S.I. Jeon, K.H. Tchah, C.S. Yim and S.J. Chung. "Voltage Tuned Dielectric Resonance 20.5GHz Harmonic Oscillator with Novel Structure." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1519-1522.

This paper presents a voltage controlled K-band harmonic oscillator composed of two X-band dielectric resonator circuits at the input port and the output port of the oscillator. The novel structure supplies not only a voltage tuning circuit but also an output port at fundamental frequency as a function of prescaler on the structure. The output frequency is 20.5GHz and the maximum power level of the output is +5 .5dBm. The harmonic oscillator exhibits -30dBc of fundamental frequency rejection.

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