

Abstracts

High-Power Second-Harmonic Gyrotron Oscillator

I.P. Spassovsky, N.A. Nikolov, K.G. Kostov, V.A. Spassov and I.G. Yovchev. "High-Power Second-Harmonic Gyrotron Oscillator." 1991 MTT-S International Microwave Symposium Digest 91.1 (1991 Vol. I [MWSYM]): 177-180.

This paper reports on experimental results from study of nonadiabatic pumped second-harmonic gyrotron oscillator. A steady second-harmonic cavity emission has been observed at 28 GHz and waveguide mode TE_{11} . A peak power of ~ 25 MW has been reached with ~ 9 percent efficiency. Magnetic field in region is modeled pumping is simulated.

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