Abstracts

W-Band Optically Controlled Gunn Subharmonic Oscillator

X. Wei Zhu, Y.Y. Chen and S.F. Li. "W-Band Optically Controlled Gunn Subharmonic Oscillator." 1992 MTT-S International Microwave Symposium Digest 92.1 (1992 Vol. I [MWSYM]): 365-368.

This paper describes a new method of controlling the frequency of W-band subharmonic Gunn oscillator using laser beam. In our experiment the maximum optical tuning frequency shift of 7MHz has been observed. A cavity with a silicon piece glued on backshort is analyzed. The complex frequencies of the cavity as a function of plasma densities are obtained.

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