Abstracts

Influence of Longitudinal Magnetic Field on the CW Submillweter Waves Output from HCN Gas Laser

M. Kawamura, M. Makiuchi, J. Yamada and H. Hagisawa. "Influence of Longitudinal Magnetic Field on the CW Submillweter Waves Output from HCN Gas Laser." 1976 MTT-S International Microwave Symposium Digest of Technical Papers 76.1 (1976 [MWSYM]): 244-246.

HCN gas laser can produce continuous and high power of submillimeter waves of 337 µm in wavelength. This paper presents the experimental results concerning the effect of longitudinal magnetic field upon the submillimeter output power. There is the optimum magnetic flux density to produce maximum power and the effect of magnetic field become more noticeable with the diameter of laser tube.

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