

Abstracts

Rectangular Cavity High Harmonic Gyrotron Amplifier

A.M. Ferendeci. "Rectangular Cavity High Harmonic Gyrotron Amplifier." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 430-431.

A gyrotron amplifier operating at the higher harmonics of the cyclotron frequency using a slotted rectangular waveguide is described. Axial grooves on the upper wall of the cavity allows strong interaction of the electrons with the electromagnetic fields. Pi and 2 pi modes of the cavity are analyzed for mode competition and optimum interaction.

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