

EXPERIMENTAL SIMULATION
OF CONDITIONS FOR EXCITATION OF
OSCILLATIONS IN THE ELECTRODYNAMIC
SYSTEM OF CONNECTED OPENED
RESONATORS

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S u m m a r y

The results of experimental researches of electrodynamic properties of connected opened resonators for the millimeter wave band, which can be used in devices of electronic engineering such as an orotron and a generator of diffraction radiation, are presented. It is established that, from the point of view of the extension of a passband, the systems with the connection of two opened resonators through tape diffraction gratings are preferable. The passband of such a system is five times more than at the connection of opened resonators through fields diffracted on the edges of mirrors.