

Generator with distributed rezonator

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Using the approximate theory of interaction between the electron flow and running electromagnetic wave in large signals regime by the method of approaches successive are carried out calculation of a main energetic characteristics of generator with rezonator as part of helix slow-wave system. Physical peculiarities of interaction electrons with field of passing electromagnetic wave are discussed. Dependences of main integral output characteristics of generator about electrodynamic system geometry and beam characteristics are obtained. The means of their essential improvement are found out.

Литература

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