

Abstracts

Effect of reflection on gyrotron operation

E. Borie. "Effect of reflection on gyrotron operation." 2001 Transactions on Microwave Theory and Techniques 49.7 (Jul. 2001 [T-MTT]): 1342-1345.

The effect of wave reflection on the single-mode operation of a gyrotron is investigated with the help of Rieke diagrams. For this purpose, a set of self-consistent equations describing the beam-field interaction is solved, taking into account the effect of the electron beam and the reflection coefficient on the frequency and RF field profile.

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