

FINITE ELEMENT ANALYSIS OF AN INDUSTRIAL RADIO-FREQUENCY APPLICATOR

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The paper presents a solution for power density uniformization in band products heated in staggered through field applicators. The FEM analysis of the electric field shows that by introducing a third electrode, and for optimum values of the geometrical parameters and electrode potentials, the power density non-uniformity may be reduced to less than 5%, rendering a quasi-uniform temperature field, even in the absence of the dielectric translational displacement.