

Abstracts

Experimental Examination of the Enhancement of Gyrotron Efficiencies by Use of Profiled Magnetic Fields

M.E. Read, K.R. Chu and A.J. Dudas. "Experimental Examination of the Enhancement of Gyrotron Efficiencies by Use of Profiled Magnetic Fields." 1982 Transactions on Microwave Theory and Techniques 30.1 (Jan. 1982 [T-MTT]): 42-46.

An experiment in which the enhancement of the efficiency of gyrotron oscillators through profiling of the magnetic field at the cavity is discussed. Electronic efficiencies to 65 percent were obtained, with power levels of 1-100 kW at 35 GHz. Satisfactory agreement with theory was found.

 [Return to main document.](#)