

Abstracts

ICRF Wave Coupling and Optimization of a Dielectric-Filled Waveguide Launcher

J.-L. Lee and J.E. Scharer. "ICRF Wave Coupling and Optimization of a Dielectric-Filled Waveguide Launcher." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. I [MWSYM]): 395-398.

A shorted-probe coupling scheme for a dielectric-filled, high power waveguide launcher for plasma heating has been constructed, modeled and analyzed. Measured reflection coefficients show good agreement with the model, especially in the optimum tuned region. The attenuation of the deionized water as the dielectric filler for the waveguide is examined as well.

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