Abstracts

Microwave breakdown in air-filled resonators

T. Olsson, D. Andersson, J. Jordan, M. Lisak, V. Semenov and M. Ahlander. "Microwave breakdown in air-filled resonators." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 915-918 vol.3.

A detailed theoretical and experimental investigation is made of the breakdown threshold of air-filled microwave components. The effects on the breakdown threshold of air pressure, pulse length, and the strong inhomogeneity of the microwave fields characteristic of resonators are analyzed. Particular attention is given to the increased liability of breakdown in multi-carrier as compared to single carrier operation.

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