

Microwave breakdown in output multiplexer filters

C. Boussavie, D. Baillargeat, M. Aubourg, S. Verdeyme, P. Guillon, A. Catherinot, S. Vigneron and B. Theron. "Microwave breakdown in output multiplexer filters." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 1185-1188.

A theoretical investigation is made of microwave breakdown in output multiplexer filters. The effects of the electrical breakdown cause irreversible damage to the device and so the power level, which generates such a phenomenon, must be predicted. This study needs a pluridisciplinary approach with a combination of three fields of the science: the electromagnetism, the thermic and the plasma physics.

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