

Multi-carrier microwave breakdown in air-filled components

U. Jordan, T. Olsson, V.E. Semenov, D. Anderson and M. Lisak. "Multi-carrier microwave breakdown in air-filled components." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 2223-2226 vol.3.

An investigation is made of the threshold for microwave breakdown in mobile telephone communication systems based on multi-carrier operation where interference between the carriers may cause occasional high power peaks in the transmission system. Thresholds are established for the worst case scenario of coherent and co-phased carriers as well as for the more realistic case of modulated carriers when the signal is considered as a stochastic signal.

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