

Abstracts

Calculation of Frequency-Dependent S-Parameters of CPW Air-Bridges Considering Finite Metallization Thickness and Conductivity

H. Jin and R. Vahldieck. "Calculation of Frequency-Dependent S-Parameters of CPW Air-Bridges Considering Finite Metallization Thickness and Conductivity." 1992 MTT-S International Microwave Symposium Digest 92.1 (1992 Vol. I [MWSYM]): 207-210.

Two types of CPW air-bridges are studied using the new full-wave frequency-domain TLM method. The finite thickness and conductivity of the air-bridge metallization, including superconductivity, is taken into account. Air-bridge s-parameters are presented for varying dimensions. Furthermore, cascading air-bridges and CPW discontinuities is investigated to determine the degree of interaction possible.

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