

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

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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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