

Abstracts

Full-Wave Analysis of Various Coplanar Bends and T-Junctions with Respect to Different Types of Air-Bridges

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Air-bridges are indispensable to monolithic microwave integrated circuit design in coplanar waveguide technique. Based on an extension of the spectral domain analysis method to analyze three-dimensional metallization structures, various types of air-bridges within bends and T-junctions are investigated. Generalized scattering parameters are calculated in order to compare the different bridge layouts. The accuracy of the proposed method is checked by comparing with measurements.

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