

Abstracts

An alternative method for end-effect characterization in shorted slotlines

G. Duchamp, L. Casadebaig, S. Gauffre and J. Pistre. "An alternative method for end-effect characterization in shorted slotlines." 1998 Transactions on Microwave Theory and Techniques 46.11 (Nov. 1998, Part I [T-MTT]): 1793-1795.

In this paper, we propose an alternative method to characterize the end effects in shorted slotlines. Using a commercial software to model the transition, a simple mathematical expression of the end impedance, valid for a given substrate family and in a wide frequency domain, was achieved. Several dielectric substrates were considered and the obtained results were compared with experimental ones. A correct agreement was observed. This approach can also be useful in more complex simulations relative to multilayer structures.

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