Abstracts

The Influence of Metallization Thickness on the Characteristics of Shielded of Cascaded Junction Discontinuities Coplanar Type Transmission Line

T.-W. Huang and T. Itoh. "The Influence of Metallization Thickness on the Characteristics of Shielded of Cascaded Junction Discontinuities Coplanar Type Transmission Line." 1993 Transactions on Microwave Theory and Techniques 41.4 (Apr. 1993 [T-MTT]): 693-697.

A full-wave analysis based on the mode-matching technique is applied to analyze cascaded junction discontinuities of coplanar type transmission lines, coplanar waveguide (CPW) and finline. Results for a CPW finline transition, a shielded CPW gap and a symmetric notch incorporating the finite metallization thickness effect are presented. The influence of metallization thickness on the coupling effect between cascaded junction discontinuities is also presented and discussed for the first time.

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