

Abstracts

Accurate Characterization of Microstrip Resonator Open End with New Current Expression in Spectral-Domain Approach (Short Papers)

T. Uwano. "Accurate Characterization of Microstrip Resonator Open End with New Current Expression in Spectral-Domain Approach (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.3 (Mar. 1989 [T-MTT]): 630-633.

This paper describes a resonant frequency characterization of microstrip resonators which is suitable for very accurate computer-aided design. First, the convergence behavior of the numerical computation based on the spectral-domain approach is discussed to secure the convergence accuracy. To reduce computation time considerably, which at present may amount to several hours, a new current expression in the spectral-domain approach is proposed. In the process described, the computational results under a good convergence have excellent agreement with those measured after estimation of a suitable dielectric constant.

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