

Abstracts

Spectral-Domain Calculation of Microstrip Characteristic Impedance

J.B. Knorr and A. Tufekcioglu. "Spectral-Domain Calculation of Microstrip Characteristic Impedance." 1975 Transactions on Microwave Theory and Techniques 23.9 (Sep. 1975 [T-MTT]): 725-728.

This paper presents a hybrid-mode solution for the characteristic impedance of microstrip on lossless dielectric substrate. A solution to the hybrid-mode equations is obtained by applying the method of moments in the Fourier transform domain. Numerical results are presented showing the frequency dependence of both wavelength and characteristic impedance for single and coupled strips. These results are compared with those of other investigators in the low-frequency range.

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