Abstracts

Frequency-Dependent Characteristics of Current Distributions on Microstrip Lines (Short Papers)

M. Kobayashi and T. Iijima. "Frequency-Dependent Characteristics of Current Distributions on Microstrip Lines (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.4 (Apr. 1989 [T-MTT]): 799-801.

The spectral-domain analysis using Chebyshev's polynomials as basis functions is used to obtain the frequency-dependent characteristics of current distributions and the effective relative permittivities of an open microstrip line. The results obtained are compared with other available results. To accurately obtain the current distributions requires a larger number of basis functions. Both longitudinal and transverse current distributions on the strip are shown for wide ranges of frequency (0 <= h/gamma/sub 0/ <= 1).

❑ Return to main document.