

Abstracts

Dispersion characteristics of multilayered slotlines-a simple approach

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This paper presents a new analytical model of two forms of multilayered slotline: a double-layer sandwich form and a slotline on a double-layer composite substrate. The conformal mapping method combined with some semiempirical approaches is used to obtain closed-form expressions for effective permittivity, characteristic impedance, and signal wavelength in these structures. In this paper, quasi-static results are compared with available data of other authors.

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