

Abstracts

Even-Mode Characteristics of the Bilateral Slotline

R. Janaswamy. "Even-Mode Characteristics of the Bilateral Slotline." 1990 Transactions on Microwave Theory and Techniques 38.6 (Jun. 1990 [T-MTT]): 760-765.

Transmission line data are presented for the even-mode characteristics of a bilateral slotline. The bilateral slotline (double-sided slotline) is analyzed by the spectral Galerkin method and results are presented for the slot wavelength and characteristic impedance for substrates having $\epsilon_r = 2.22, 3.5, 6.0, 9.8, \text{ and } 12.8$. The results are presented for $0.01 \leq \sqrt{\epsilon_r} \frac{d}{\lambda_0} \leq 0.25$, where $2d$ is the substrate thickness and ϵ_r its dielectric constant.

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