

Abstracts

Planar Transmission Lines

D. Park. "Planar Transmission Lines." 1955 Transactions on Microwave Theory and Techniques 3.3 (Apr. 1955 [T-MTT]): 8-12.

This paper derives formulas for the transmission properties--characteristic impedance and attenuation--in the principal mode of a transmission line consisting of one or two long strips of metal foil embedded in a dielectric material between two long metal strips considerably wider than the central ones. The width and spacing of the central strips is arbitrary, and it is also necessary to take account of their thickness in computing the attenuation. A graphical method is given for evaluating the characteristic impedance in general, and analytic approximations are given for a number of special cases. Finally the question of the leakage of power from between the outer strips is considered briefly.

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