

Abstracts

Computation of the Characteristics of Coplanar-Type Strip Lines by the Relaxation Method (Short Papers)

T. Hatsuda. "Computation of the Characteristics of Coplanar-Type Strip Lines by the Relaxation Method (Short Papers)." 1972 Transactions on Microwave Theory and Techniques 20.6 (Jun. 1972 [T-MTT]): 413-416.

The characteristics of new strip lines (i.e., a single strip conductor and a two symmetrical strip-conductor coplanar-type strip line, which consist of single- or two-center strip conductors and ground plates on a dielectric substrate and outer ground conductor) are calculated by the relaxation method. The effect of the outer ground conductor on these lines is analyzed, and the characteristic impedance and velocity ratio are determined. The characteristic impedance is determined experimentally, and the maximum values of the discrepancies compared with the calculated values of each of the lines are 2.0-3.0 percent.

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