

Abstracts

A Simple Quasi-Static Determination of Basic Parameters of Multilayer Microstrip and Coplanar Waveguide

J. Svacina. "A Simple Quasi-Static Determination of Basic Parameters of Multilayer Microstrip and Coplanar Waveguide." 1992 Microwave and Guided Wave Letters 2.10 (Oct. 1992 [MGWL]): 385-387.

Two generalized multilayer transmission lines are investigated: microstrip line (MSL) and asymmetrical coplanar waveguide (CPW). The conformal mapping method is used to obtain simple analytical expressions for quasi-TEM effective permittivity of these structures. Accuracy of derived generalized formulas is verified for any special cases of multilayer structures.

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