

Abstracts

18-42 GHz Experimental Verification of Microstrip Coupler and Open End Capacitance Models (Short Papers)

A.J. Slobodnik, Jr., R.T. Webster and G.A. Roberts. "18-42 GHz Experimental Verification of Microstrip Coupler and Open End Capacitance Models (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.3 (Mar. 1992 [T-MTT]): 584-587.

A cavity resonance technique is used to experimentally verify microstrip coupler and open end capacitance models over the frequency range 18-42 GHz. In addition, these results are confirmed using an alternative version of the technique which directly determines open end discontinuity capacitance. In the second case knowledge of substrate dielectric constant is not required and the method also yields microstrip relative effective dielectric constant.

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