

Propagation characteristics of Schottky contact suspended slow-wave microstrip line

A.K. Verma and Nasimuddin. "Propagation characteristics of Schottky contact suspended slow-wave microstrip line." 2001 Microwave and Wireless Components Letters 11.9 (Sep. 2001 [MWCL]): 385-387.

The single-layer reduction (SLR) model computes the normalized phase constant (β/β_0), dielectric loss (α_d), and conductor loss (α_c) for the Schottky contact slow-wave microstrip (SCSM) line with accuracy about 2.0% for β/β_0 , and within 0.01 dB/mm for the total loss ($\alpha_t = \alpha_d + \alpha_c$) as compared against the experimental results. The SLR model has been further used to analyze the normal and abnormal characteristics of a proposed Schottky contact suspended slow-wave microstrip (SCSSM) line with 22% increase in β/β_0 over the normal SCSM line. The SCSSM line could be useful in the lower range of RF for the development of compact components.

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