Abstracts

A new dispersion model for microstrip line

A.K. Verma and R. Kumar. "A new dispersion model for microstrip line." 1998 Transactions on Microwave Theory and Techniques 46.8 (Aug. 1998 [T-MTT]): 1183-1187.

This paper presents the phenomenological dispersion law and a new logistic dispersion model (LDM) for the microstrip line which has a root-mean-square (rms) accuracy of <1% and a maximum deviation of <2% for any W/h ratio, any permittivity, and at any operating frequency. The model is also applicable to the conductor of finite thickness. The eight existing dispersion models have also been compared against the experimental results and against the spectral-domain analysis (SDA) over a wide range of parameters.

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