

Abstracts

Analysis and Synthesis Equations for Edge-Coupled Suspended Substrate Microstrip Line

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The dispersion characteristics of edge-coupled suspended substrate microstrip line is analyzed by using method of lines. Based on the numerical results obtained from this method, a set of closed-form analysis and synthesis equations are presented, valid over a practical application range of structural parameters and substrate dielectric constant. Compared with the data obtained from SUPER COMPACT, the accuracy is found to be within 3.5% for analysis and 5% for synthesis.

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