Abstracts

Analysis Equations for Shielded Suspended Substrate Microstrip Line and Broadside-Coupled Stripline

Y.-H. Shu, X.-X. Qi and Y.-Y. Wang. "Analysis Equations for Shielded Suspended Substrate Microstrip Line and Broadside-Coupled Stripline." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 693-696.

Simple and closed-form equations for analysis of shielded suspended substrate microstrip line (SSL) and Broadside-coupled stripline (BSCL) are presented, valid over a practical application range of structural parameters and substrate dielectric constant. Comparing with the values obtained using finite-differential method, the accuracy is found to be within ±2% (w <a/2) and ±3% (a/2<w<a) for SSL and within ±4.5% (odd mode) and ±3.5% (even mode) for BSCL.

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