

Abstracts

Open-End and Edge Effect in Microstrip Transmission Lines (Short Papers)

O.P. Jain, V. Makios and W.J. Chudobiak. "Open-End and Edge Effect in Microstrip Transmission Lines (Short Papers)." 1972 Transactions on Microwave Theory and Techniques 20.9 (Sep. 1972 [T-MTT]): 626-628.

An empirically derived relation is reported which accurately describes the open-end effect in microstrip transmission lines on alumina substrates. This empirical equation was used to describe the edge-correction term in Wheeler's general expression for the characteristic impedance for wide lines. It is shown that with this modification there exists a distinct crossover ($w/h \approx 1$) between the narrow- and wide-line approximations.

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