Abstracts

End Effects of Half-Wave Stripline Resonators (Short Papers)

R.O.E. Lagerlof. "End Effects of Half-Wave Stripline Resonators (Short Papers)." 1973 Transactions on Microwave Theory and Techniques 21.5 (May 1973 [T-MTT]): 351-353.

The end effects of an open-circuited TEM transmission line make the line electrically longer than its physical length. In this short paper a half-wave resonator of a balanced strip transmission line has been analyzed and the required foreshortening of the line to achieve a prescribed resonance frequency has been calculated. Also the decrease in the characteristic impedance of the stripline caused by the end effects has been determined. The theory is in reasonably good agreement with measurements performed, especially for narrow stripline resonators.

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