

Abstracts

Data Reduction Method for Q Measurements of Strip-Line Resonators (Short Papers)

S. Toncich and R.E. Collin. "Data Reduction Method for Q Measurements of Strip-Line Resonators (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.9 (Sep. 1992 [T-MTT]): 1833-1836.

This paper describes a technique that enables the attenuation constant α of a microstrip line to be found from the measured return loss curve as a function of frequency for a half wavelength resonator. Data averaging is incorporated and the effects of dispersion are included. This method does not require the use of an equivalent resonator model for the stripline, nor does it rely on graphical techniques.

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