

Abstracts

Some Aspects of the Measurement of the Q Factor of Transmission Lines

P.I. Somlo. "Some Aspects of the Measurement of the Q Factor of Transmission Lines." 1963 Transactions on Microwave Theory and Techniques 11.6 (Nov. 1963 [T-MTT]): 472-478.

This paper deals with two basic problems in the measurement of the Q factor of low-loss transmission lines: 1) long lines and 2) short lines with appreciable direct coupling between the driving and pickup probes. The results are given as relative ordinates on the (distorted) resonance curve which correspond to the correct values of $\pm \frac{1}{2} \Delta / \text{Im} \Gamma$ or $\pm \frac{1}{2} \Delta / \text{Re} \Gamma$ defined by $Q = \text{Re} \Gamma / \Delta$.

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