Abstracts

The Insertion Loss of Transmission Lines Used in Matching Networks (Correspondence)

The insertion loss of a section of transmission line is usually not a linear function of its length whenever the line is not terminated in its characteristic impedance. This is because the conductor losses exceed the dielectric losses and are usually evident in the form of "hot spots" coincident with the current maxima. This correspondence presents the rigorous expressions and corresponding curves which enable the calculation of the loss of a transmission line terminated in a mismatch and the losses in a matching network employing transmission lines.

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