

Abstracts

Characteristic Impedance of Rectangular Coaxial Transmission Lines

O.R. Cruzan and R.V. Garver. "Characteristic Impedance of Rectangular Coaxial Transmission Lines." 1964 *Transactions on Microwave Theory and Techniques* 12.5 (Sep. 1964 [T-MTT]): 488-495.

The characteristic impedance of rectangular coaxial transmission lines can be readily and accurately computed by a simple equation when the capacitance per unit length is known. While the capacitance per unit length of the parallel sides is easily calculated, the calculation of the corner capacitance is a more difficult problem. This problem has been solved by Skiles and Higgins, using orthonormal block analysis. By using their formulas, the corner capacitances for a wide range of all variables were evaluated by means of a digital computer. The results are catalogued in graphical form.

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