

Abstracts

High Frequency Performance of Multilayer Capacitors

A.T. Murphy and F.J. Young. "High Frequency Performance of Multilayer Capacitors." 1995 Transactions on Microwave Theory and Techniques 43.9 (Sep. 1995, Part I [T-MTT]): 2007-2015.

The high frequency performance of capacitors is related to their geometry and material properties. By considering multilayer capacitors (MLC) as distributed electrical systems, computer-aided multi-conductor transmission line analyses is applied to study resonant frequencies, equivalent circuits of capacitors, and the influence of ground planes, test fixtures, and type of connection topology. The methods established are applied to well-documented capacitors described in the literature and good agreement between experimental results and analyses is obtained.

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