

Abstracts

Dielectric Constant Evaluation of Insulating Materials: An Accurate, Practical Measurement System

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The concept, design, and illustrative results are presented for a coaxial resonant-cavity system used to determine dielectric constant and loss tangent in the UHF-microwave frequency range. Its significant practical features of convenience, simplicity, and reproducibility of measurements together with excellent accuracy make it suitable for evaluation of microcircuit substrates and other critical materials.

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