

Measurement of Non-Planar Dielectric Samples Using an Open Resonator

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A new technique for the measurement of the complex permittivity of dielectric samples having convex-concave surfaces using an open resonator is reported. The paper discusses the theory behind the new technique and describes measurements made at 11.6 GHz on perspex samples whose surfaces have radii of curvature as small as 330mm. The results obtained are in good agreement with those for the same material measured in flat sheet form.

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