

Abstracts

Measurement of Nonplanar Dielectric Samples Using an Open Resonator

W.F.P. Chan and B. Chambers. "Measurement of Nonplanar Dielectric Samples Using an Open Resonator." 1987 Transactions on Microwave Theory and Techniques 35.12 (Dec. 1987 [T-MTT] (1987 Symposium Issue)): 1429-1434.

Conventional microwave methods for measuring permittivity often utilize samples in flat sheet form. In practice, however, it is sometimes desirable to measure samples having curved surfaces, for example, parts of lenses or small radomes. This paper describes an open resonator technique for achieving this and compares measurements made at 11.6 GHz on samples of polymethyl methacrylate in both curved and flat sheet form.

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