

Abstracts

The Use of Higher Resonant Modes in Measuring the Dielectric Constant of Dielectric Resonators

P. Wheless, Jr. and D. Kajfez. "The Use of Higher Resonant Modes in Measuring the Dielectric Constant of Dielectric Resonators." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 473-476.

In the measurement procedure known as Courtney method, the dielectric constant of a cylindrical dielectric resonator is determined by measurement of the resonant frequency of the TE₀₁₁ mode. The reliability and accuracy of this method can be improved by also utilizing higher resonant modes. A procedure for identification of the modes is described, and some example results for measured dielectric constant are presented.

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