

# Abstracts

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

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*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 TE/sub 011/ 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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