

# Abstracts

## Spectral Domain Analysis of a Hexagonal Microstrip Resonator (Short Papers)

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*A.K. Sharma and W.J.R. Hoefer. "Spectral Domain Analysis of a Hexagonal Microstrip Resonator (Short Papers)." 1982 Transactions on Microwave Theory and Techniques 30.5 (May 1982 [T-MTT]): 825-828.*

The capacitance of an open regular hexagonal microstrip resonator is calculated with the quasi-static spectral domain technique. From the capacitance values, the effective hexagonal side and the effective dielectric constant are determined, yielding resonant frequencies which agree well with measured values. Numerical data for several dielectric constants are included. The capacitance values are also compared with those of circular and triangular microstrip resonators. A simple formula relates the resonant frequencies of commensurate hexagonal and circular resonators.

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