Abstracts

A Multicomposite, Multilayered Cylindrical Dielectric Resonator for Application in MMIC's

W.K. Hui and I. Wolff. "A Multicomposite, Multilayered Cylindrical Dielectric Resonator for Application in MMIC's." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 929-932.

A brief summary is given of a new rigorious method to determine resonant frequencies and field distributions of all resonant modes in a multicomposite, multilayered cylindrical dielectric resonator. This resonator consists of a number of concentrical cylinders, which are arbitrarily layered in axial direction. As examples, a dielectric sphere and a dielectric cone placed in MIC environment have been analysed. The sphere and the cone are structurally approximated by bodies of revolution with a stepped cross section. The calculated resonant frequencies have an accuracy of <10/sup -4/.

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