Abstracts

Finite Element Simulation for Microwave Devices Applications to Microwave D.R. Filters

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Rigorous numerical analysis of an axis symmetrical TM/sub 0,1,delta/ dielectric resonators mode filter is presented. Two dimensional (2D) and three dimensional (3D) finite element method (F.E.M.) is applied to compute the exact scattering matrix parameters (Taking into account the excitation probes) of this device. A sensitivity analysis is also performed and permits easier filter tuning. Experimental results are given and are in good agreement with theoretical ones.

❑ Return to main document.