

Abstracts

Tunable dielectric resonators with dielectric tuning disks in cylindrical enclosures

T. Shen, K.A. Zaki, C. Wang and J. Deriso. "Tunable dielectric resonators with dielectric tuning disks in cylindrical enclosures." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1441-1444.

Tunable dielectric resonators with dielectric tuning disks in cylindrical enclosures are modeled by mode matching method. Tuning properties of TE₀₁₁ mode such as tuning ranges, spurious mode separation, unloaded quality factors and couplings, etc., are investigated for both rod- and ring-type dielectric resonators. Wide tuning ranges are obtained while other properties of resonators are maintained over the tuning ranges.

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