

Tunable dielectric resonators with dielectric tuning disks

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Turnable dielectric resonators with dielectric tuning disks in cylindrical and rectangular enclosures are modeled by mode matching method. Tuning properties of TE/sub 01/ mode such as tuning ranges, spurious mode separation, unloaded quality factors, 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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