

Design Charts for Shielded Dielectric Rod and Ring Resonators

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Some useful charts are presented to design precisely dielectric rod and ring resonators placed symmetrically in conductor cavities. When a resonant frequency of the TE/sub 01delta/ mode and necessary material constants are given, the optimum dimensions for offering the best separation from other resonances, the frequency-temperature coefficient, and the unloaded Q can be determined from these charts.

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