

Numerical Analysis of the Tubular Dielectric Resonator with a Dielectric Tuning Rod

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This paper presents the results of the numerical analysis of a resonant cavity containing a tubular dielectric resonator and a dielectric tuning rod. For the given set of dimensions, the analysis indicates that the resonant mode TM_{01} can be tuned over 14% of the frequency range. Higher-order modes, which could interfere with the desired TM_{01} mode, are also evaluated.

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