

Generalized multilayer anisotropic dielectric resonators

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Modeling of the generalized multilayer cylindrical anisotropic dielectric loaded resonator structure by rigorous mode matching method is presented. Eigen modes of the multilayers two parallel plates waveguides are obtained. By cascading the radial discontinuities of the structure, resonant frequency, field distribution and the unloaded Q of the resonator are obtained. The computed results are compared with the experimental data for higher order Whispering Gallery (WG) modes and shown to be in good agreement.

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