

Abstracts

Whispering Gallery Dielectric Resonator Filters

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This paper discusses the utilization of whispering gallery mode dielectric resonators for the design of filters at high frequencies. The analysis based on the three dimensional finite element method makes it possible to predict the theoretical responses of filters. Two kinds of filters are presented. The first one is a volumic one and uses two resonators placed in a metallic cavity and coupled to two electric probes. The second one is a planar one and is the association of elementary devices which are composed of a dielectric resonator coupled to two parallel microstrip lines.

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