

Mixed Modes Cylindrical Planar Dielectric Resonator Filters with Rectangular Enclosure (1995 Vol. II [MWSYM])

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A compact mixed modes cylindrical planar dielectric resonator filter in rectangular enclosure with excellent spurious free performance is presented. Space coupling between different mode's dielectric resonators and iris coupling between identical mode's dielectric resonators are realized in the filters. All couplings are computed by rigorous full wave mode matching technique. A 6-pole elliptic function filter is designed, constructed and tested. Excellent filter frequency response is obtained.

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