

Canonical Bandpass Filters Using Dual-Mode Dielectric Resonators

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A canonical bandpass filter constructed by placing dual-mode dielectric resonators coaxially in a cutoff circular waveguide is discussed. Rigorous analysis of the dual-mode dielectric resonator and inter-resonator coupling is performed with the mode matching technique. Four- and six-pole elliptic bandpass filters are realized at 12 GHz.

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