

Abstracts

Dual-Mode Dielectric Resonator Filters with Improved Spurious Performance

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This paper presents novel configurations for dual-mode dielectric resonators operating in the HEH/sub 11/ mode or the HEE/sub 11/ mode. The use of the proposed configurations in the design of dual-mode dielectric resonator filters leads to a design with a remarkably improved spurious performance. Techniques to control the frequency separation between the resonance frequencies of the two dual-modes HEH/sub 11/ and HEE/sub 11/ are discussed. Experimental results are presented to verify the validity of the proposed configurations.

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