

Abstracts

Novel helical resonator filter structures

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Helical resonator filters are well-known and widely used at lower microwave frequencies. Two novel helical resonator filter configurations for applications in wireless and satellite communication systems are described in this paper. This includes miniature filters utilizing single mode, high dielectric constant material loaded helical resonators, as well as higher order dual mode helical resonator loaded cavities. Both configurations can be used to realize advanced filters with non-adjacent couplings. The basic filter configurations are discussed and experimental results are presented.

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