

Abstracts

Miniature Dual Mode Microstrip Filters

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Dual mode cavity and dielectric resonator filters are the mainstay of satellite communications. In this paper, a new generation of planar dual mode filters is introduced which offers significant size, weight, and cost advantages over these previous designs. All currently used elliptic function, self equalized, etc. filter designs can be implemented in microstrip using this new concept. The proposed filter structures are ideally suited for implementation using the recently discovered high temperature superconductors. Basic dual mode resonator and filter structures are discussed, and experimental data for proof of concept filters implemented using both normal and superconducting microstrip are presented.

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