Abstracts

A dual mode filter with trifurcated iris and reduced footprint

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This paper presents a novel configuration for dual mode filters operating in the TE/sub 11n/ modes. The use of the proposed configurations in the design of dual mode filters leads to a significant reduction in the filter footprint. Techniques to suppress the TE/sub 21n/ modes in a TE/sub 113/ cylindrical cavity filter are proposed by using a trifurcated iris arrangement. Simulated and experimental results are presented to verify the validity of the proposed configuration.

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