Abstracts

A novel dual-mode bandpass filter with wide stopband using the properties of microstrip open-loop resonator

A. Gorur. "A novel dual-mode bandpass filter with wide stopband using the properties of microstrip open-loop resonator." 2002 Microwave and Wireless Components Letters 12.10 (Oct. 2002 [MWCL]): 386-388.

A novel dual-mode microstrip square loop resonator is proposed using the slow-wave and dispersion features of the microstrip slow-wave open-loop resonator. It is shown that the designed and fabricated dual-mode microstrip filter has a wide stopband including the first spurious resonance frequency. Also, it has a size reduction of about 50% at the same center frequency, as compared with the dual-mode bandpass filters such as microstrip patch, cross-slotted patch, square loop, and ring resonator filter.

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