Abstracts

A Compressed-Length 90°-Bent Offset Broadside-End-Coupled Bandpass Filter

C.-K.C. Tzuang, Y.-C. Chiang and S. Su. "A Compressed-Length 90°-Bent Offset Broadside-End-Coupled Bandpass Filter." 1991 Microwave and Guided Wave Letters 1.10 (Oct. 1991 [MGWL]): 285-287.

A 21-22 GHz compressed-length offset broadside-end-coupled three-resonator bandpass falter is presented. The filter length, defined as the distance between the two interface planes governing the input and output ports, is reduced by approximately two-thirds for the particular filter as compared to the conventional colinear realization. The measured response shows less than 1.5 dB insertion loss and greater than 10 dB return loss in the passband. The noncolinear and offset broadside-end-coupled arrangement of such filter makes it flexible to interface with other microwave circuits in a communication system or subsystem design.

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