

Abstracts

Microstrip cascade trisection filter

Chu-Chen Yang and Chi-Yang Chang. "Microstrip cascade trisection filter." 1999 Microwave and Guided Wave Letters 9.7 (Jul. 1999 [MGWL]): 271-273.

A new configuration of odd-degree cascade trisection bandpass filter realized by combining a microstrip hairpin resonator and $\lambda/2$ -line open-circuited resonator is proposed. The general asymmetric Chebyshev function is used to synthesize the cascade trisection prototype. A five-pole microstrip cascade trisection bandpass filter with two asymmetrically prescribed transmission zeros located on opposite of the passband is designed and fabricated. The experimental result matches well with the theory.

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