

Abstracts

Bandpass Filters Using Parallel Coupled Stripline Stepped Impedance Resonators

M. Makimoto and S. Yamashita. "Bandpass Filters Using Parallel Coupled Stripline Stepped Impedance Resonators." 1980 Transactions on Microwave Theory and Techniques 28.12 (Dec. 1980 [T-MTT] (1980 Symposium Issue)): 1413-1417.

Approximate design formulas for bandpass filters using parallel coupled stripline stepped impedance resonators (SIR) are derived. The formulas take into account the arbitrary coupling length as well as quarter-wavelength coupling. Some advantages of this filter are its abilities to control spurious response and insertion loss by changing the structure of the resonator. Using the design formulas two experimental filters were designed and fabricated and their performances closely matched design data.

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