Abstracts

Novel Staggered Resonator Array Superconducting 2.3-GHz Bandpass Filter (Dec. 1993 [T-MTT])

G.L Matthaei and G.L. Hey-Shipton. "Novel Staggered Resonator Array Superconducting 2.3-GHz Bandpass Filter (Dec. 1993 [T-MTT])." 1993 Transactions on Microwave Theory and Techniques 41.11 (Dec. 1993 [T-MTT] (1993 Symposium Issue)): 2345-2352.

A novel stripline bandpass filter structure is presented which consists of a parallel array of equally spaced half-wavelength resonators. Couplings are controlled by introducing a small amount of stagger in the positions of the resonators. A very compact narrowband superconducting filter of this type was fabricated with excellent results. The design theory, computed and measured performance, and manner of construction are discussed.

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