

Abstracts

The Minimum Volume of an Equal-Element Bandpass Filter (Correspondence)

*J.J. Taub. "The Minimum Volume of an Equal-Element Bandpass Filter (Correspondence)."
1968 Transactions on Microwave Theory and Techniques 16.4 (Apr. 1968 [T-MTT]): 264-265.*

The purpose of this correspondence is to determine the number of resonators required to realize the minimum volume in an equal-element bandpass filter subject to the conditions of fixed midband insertion loss and rejection bandwidth. Since an equal-element filter has lower midband insertion loss than a Butterworth or Chebychev filter the criterion described herein should prove useful in miniature and integrated circuit applications requiring microwave bandpass filters.

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