

Abstracts

A Method of Tolerance Enhancement for Filters and Amplifier Matching Networks (Short Papers)

A.N. Riddle and R.J. Trew. "A Method of Tolerance Enhancement for Filters and Amplifier Matching Networks (Short Papers)." 1991 Transactions on Microwave Theory and Techniques 39.1 (Jan. 1991 [T-MTT]): 146-148.

A new filter prototype for increasing the tolerance of passive networks to load variations is presented. A method based on the way in which a networks reflection coefficient changes in response to component and load reactance variations is used to develop the filter polynomial. This new filter polynomial has greater tolerance to load reactance variations, component variations, and finite element Q than Butterworth, Chebyshev, or elliptic structures. Examples using this new filter for tolerance enhancement of filters and matching structures are presented.

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