

Design Equations for Symmetric Microstrip DC Blocks

D. Kajfez and B.S. Vidula. "Design Equations for Symmetric Microstrip DC Blocks." 1980 Transactions on Microwave Theory and Techniques 28.9 (Sep. 1980 [T-MTT]): 974-981.

The design formulas are presented for achieving either a rippled or a maximally flat response of the dc blocks built with symmetrical coupled microstrip lines. The selection of characteristic impedances of the odd and even modes is facilitated by the use of a universal diagram containing the equicontours of the standing wave ratio and of the band-width. The deformation of the frequency response due to a difference in wavelengths of the odd and even modes is analyzed and the design procedure is adjusted accordingly.

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