

Abstracts

Some Considerations in the Design of Narrow-Band Waveguide Filters

L. Young. "Some Considerations in the Design of Narrow-Band Waveguide Filters." 1963 Transactions on Microwave Theory and Techniques 11.6 (Nov. 1963 [T-MTT]): 522-527.

It is natural that design considerations common to all kinds of filters should have received most attention in the literature. Some design considerations which are peculiar to waveguide filters (being due to the dispersive property of waveguides) are treated in this paper. It is shown that there are waveguide dimensions which minimize the filter dissipation loss and also the filter pulse power capacitance and which keep the nearest spurious-frequency response farthest from the fundamental pass band. Graphical data are presented to show how much is to be gained or lost by departing from the usual dimensions.

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