

Abstracts

Precision Design of Direct Coupled Filters (Correspondence)

J. Reed. "Precision Design of Direct Coupled Filters (Correspondence)." 1967 *Transactions on Microwave Theory and Techniques* 15.2 (Feb. 1967 [T-MTT]): 134-136.

The direct coupled filter to be discussed in this correspondence consists of a length of transmission line with reflecting obstacles spaced at approximately half wavelength intervals. High-power capabilities can be achieved because the filter can be made without changing the size of the transmission line and, as will be described, without any special tuning devices. The following analysis is applicable for waveguides with inductive obstacles and also to coaxial lines with inductive posts. By duality it is also valid for coaxial or strip line with capacitive gaps.

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