

Abstracts

The Design of a Bandpass Filter with Inductive Strip--Planar Circuit Mounted in Waveguide

Y. Konishi and K. Uenakada. "The Design of a Bandpass Filter with Inductive Strip--Planar Circuit Mounted in Waveguide." 1974 Transactions on Microwave Theory and Techniques 22.10 (Oct. 1974 [T-MTT]): 869-873.

The equivalent circuit of an inductive strip inserted in the middle of a waveguide parallel to the E plane is analyzed theoretically by evaluating the inductive reactance of the equivalent T network which was obtained by the Rayleigh-Ritz variational technique. A design theory for the bandpass filter of this type is derived from this equivalent circuit. The confirmation between the design theory and the experimental results is also shown.

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