

Abstracts

Bandstop Filter in Nonradiative Dielectric Waveguide Using Rectangular Resonators (Dec. 1987 [T-MTT])

J.A.G. Malherbe and J.C. Coetzee. "Bandstop Filter in Nonradiative Dielectric Waveguide Using Rectangular Resonators (Dec. 1987 [T-MTT])." 1987 Transactions on Microwave Theory and Techniques 35.12 (Dec. 1987 [T-MTT] (1987 Symposium Issue)): 1161-1163.

A bandstop filter realized by means of rectangular resonators coupled to the center dielectric strip of a nonradiative dielectric (NRD) waveguide is described. This filter has the advantage that it is simple to manufacture, making use of a center dielectric of standard cross section. The design procedure is similar to the conventional strip line design procedure, with the stubs replaced by "stubs" of dielectric, or resonators. The design equations for the stub coupling are derived the properties of the stubs are obtained through measurement.

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