

Abstracts

Low-Cost Waveguide Filters with Printed-Circuit Inserts

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An easy to manufacture waveguide filter is presented. This type of filter is based on printed-circuit-board inserts with resonator strips. The electromagnetic properties of the strips interacting with the electromagnetic field inside the waveguide are described by equivalent circuit elements. Filter synthesis and computer optimization is applied to design band-stop filters. Finally simulated results are compared with measurements.

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