

# Abstracts

## Low-Cost Waveguide Filters with Printed-Circuit Inserts

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*H. Schmiedel, M. Muller and A. Anufriev. "Low-Cost Waveguide Filters with Printed-Circuit Inserts." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 611-614.*

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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