

Abstracts

Design and Analysis of a Waveguide-Sandwich Microwave Filter (Short Papers)

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In 1972 Konishi proposed a unique waveguide filter of sandwich-like construction that was attractive because of its simplicity. This short paper presents an analysis of the sandwich filter that has a conductive sheet with finite thickness sandwiched between waveguide shells. An equivalent circuit is derived, design charts are proposed, and Young's technique is applied to the design of an M-band waveguide filter. The experimental results were found to be in good agreement with the theory and analysis techniques developed herein.

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