Abstracts

Coaxial and Circular Waveguide Bandpass Filters Using Printed Metal Inserts

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This paper presents a field theoretical analysis of metal septum loaded coaxial and circular waveguide sections. Based on the s-parameters derived from this analysis, bandpass filters are designed for the 30 GHz range. Theoretical performance and measured results are in excellent agreement and are better than 1.3 dB (S/sub 21/) and 25 dB (S/sub 11/), respectively.

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