

Abstracts

Generalized TE₀₁₁ Mode Waveguide Bandpass Filters

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The realization of the general transfer functions of bandpass coupled cavity filters in the high Q circular waveguide TE₀₁₁ mode is presented in this paper. In addition, a novel method of suppressing the degeneracy of the TM₁₁₁ mode is described. Finally, experimental results obtained from a fourth-order, elliptic function, 20-MHz, bandpass filter centered at 12 GHz and having an unloaded Q of 16,000 are discussed.

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