

Abstracts

Generalized TE/sub 011/ Mode Waveguide Bandpass Filters

A.E. Williams and A.E. Atia. "Generalized TE/sub 011/ Mode Waveguide Bandpass Filters." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 60-62.

The realization of the general transfer functions of bandpass coupled cavity filters in the high Q circular waveguide TE/sub 011/ mode is presented in this paper. In addition, a novel method of suppressing the degeneracy of the TM/sub 111/ 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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