

Abstracts

Spurious Free D.R. TE Mode Band Pass Filter

A. Abdelmonem, J.-F. Liang, H.-W. Yao and K.A. Zaki. "Spurious Free D.R. TE Mode Band Pass Filter." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 735-738.

A direct coupled dielectric loaded bandpass filter is designed in a rectangular waveguide configuration using TE₁₀ mode with a spurious free response up to twice the operating frequency. The filter has no tuning screws and is small in size. Theoretical design of the filter is supported by the experimental results. Superiority of the filter over the inductive window coupled filter is presented. Practical issues faced while building the filter are discussed.

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