

Abstracts

A Two-Path Multimode Bandpass Filters Using the Nonradiative Dielectric (NRD) Waveguide Technology

J. Huang and K. Wu. "A Two-Path Multimode Bandpass Filters Using the Nonradiative Dielectric (NRD) Waveguide Technology." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1547-1550.

A new class of two-path multimode bandpass filters are proposed in this paper for stringent requirement of NRD integrated circuits. Rigorous field-theoretical analysis and CAD procedure are developed to determine frequency response of the proposed structure. It is shown that the two-path multimode filter presents a better electrical performance over its one-path counterpart. In addition, the proposed geometry provides also more freedom of choosing filter parameters in the design and optimization of bandpass filters.

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