

Abstracts

Quadruple-Mode Filters

R.R. Bonetti and A.E. Williams. "Quadruple-Mode Filters." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. 1 [MWSYM]): 145-147.

The basic unit of the quadruple-mode filter is a cylindrical cavity designed at the degeneracy of the dual TE_{sub lmn} and the dual TM_{lpq} modes. The design and performance of a single-cavity, 4-pole elliptic function bandpass filter, centered at 4 GHz, and a two-cavity, 8-pole quasi-elliptic bandpass filter at 12 GHz are described. Both units exhibit excellent correlation between theory and experiment.

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