

Abstracts

Quadruple-Mode Filters

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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.

 [Return to main document.](#)