Abstracts

Ferrite Tunable Millimeter Wave Printed Circuit Filters

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New designs of millimeter wave magnetically tunable E-plane integrated circuit filters are described. The filters combine the advantages of printed circuit technology with those of the high power capability of ferrite-slab loaded waveguides. Computer optimized design data based on the rigorous modal S-matrix method are given for Ka-band tunable metallic and finline type filters. The theory is verified by measured results in Ku-band.

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