Abstracts

Scattering Parameters of E-Plane Printed Opposite Fin in Waveguide (Short Papers)

T.Q. Ho and Y.C. Shih. "Scattering Parameters of E-Plane Printed Opposite Fin in Waveguide (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.11 (Nov. 1990 [T-MTT]): 1736-1740.

An analysis of the E-plane printed opposite fin in waveguide is presented. The current distribution existing on the metal fin is obtained through a variational technique that utilizes the extremization process. The eigenvalue functions derived from the transverse resonance condition are used to include the effects of the dielectric layer. Numerical results agree well with those computed using the spectral-domain technique for a special case and with those measured by a band-reject filter at Ka-band.

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