Abstracts

Modal Characteristics of Crossed Rectangular Waveguides

The modal solution for the crossed rectangular waveguide is presented. Cutoff frequencies and modal fields are determined by formulating an integral eigenvalue equation which can be solved by application of the Ritz-Galerkin method. Field equations are given for both TE and TM modes. The calculated cutoff frequencies of several lower order modes agree very well with the available experimental results in the literature.

❏ Return to main document.