

Abstracts

Loss Calculations for Rectangular Coupled Bars (Correspondence)

M.C. Horton. "Loss Calculations for Rectangular Coupled Bars (Correspondence)." 1970 Transactions on Microwave Theory and Techniques 18.10 (Oct. 1970 [T-MTT]): 736-738.

By using slope information obtained from Getsinger's or Gupta's charts, it is possible to calculate incidental loss in TEM coupled-line sections using the equation for α_{cc} given in this correspondence. This value of loss factor can then be used to calculate incidental loss in components that include coupled-line sections for which $Z_{02}^2 = Z_{0e}Z_{0o}$, such as 90° backward-wave couplers and microwave C sections. An example calculation is given for a single-section 90° coupler.

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