

On Performance Limitations of Aperture Coupling Between Rectangular Waveguides

C.-H. Liang and D.K. Cheng. "On Performance Limitations of Aperture Coupling Between Rectangular Waveguides." 1982 Transactions on Microwave Theory and Techniques 30.5 (May 1982 [T-MTT]): 777-781.

The conditions for and expressions of the best coupling flatness and optimum directivity obtainable over a given bandwidth from broad-wall aperture coupling between rectangular waveguides are derived. An inequality representing a constraining relationship among coupling flatness, directivity, and bandwidth is established.

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