

Abstracts

On the Design of Transitions Between a Metal and Inverted Strip Dielectric Waveguide for Millimeter Waves (Short Papers)

S. Bhooshan and R. Mittra. "On the Design of Transitions Between a Metal and Inverted Strip Dielectric Waveguide for Millimeter Waves (Short Papers)." 1981 Transactions on Microwave Theory and Techniques 29.3 (Mar. 1981 [T-MTT]): 263-265.

The results of a study of three types of transitions between the rectangular metal waveguide and the inverted strip guide are reported. Reflected power measurements from each type of transition and insertion-loss measurements for configurations involving the three transitions have also been carried out. The procedure of determining the optimum parameters for the transition is quite general, and has the potential for being extended to other dielectric structures.

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