

Abstracts

Rectangular Waveguide-to-Coax Line Transitions: 1968 (Correspondence)

M.M. Brady. "Rectangular Waveguide-to-Coax Line Transitions: 1968 (Correspondence)." 1969 Transactions on Microwave Theory and Techniques 17.3 (Mar. 1969 [T-MTT]): 170-170.

The ordinary transition between waveguide and coaxial transmission lines is often a component which is taken for granted, yet also often the one which limits the bandwidth, match, or maximum power attainable in a composite system. Two typical production transitions for familiar waveguide sizes are shown in Fig. 1 to illustrate the similarity in construction techniques. The one on the left is for 153 IEC-R 100 (U. S. EIA WR-90) waveguide as commonly used for marine radar and for microwave laboratory courses. The one on the right is for 153 IEC-R 6 (U. S. EIA WR-1500) as used for military communications and UHF TV systems.

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