Abstracts

Wide-Band Waveguide-to-Microstrip Transition and Power Divider

M. Davidovitz. "Wide-Band Waveguide-to-Microstrip Transition and Power Divider." 1996 Microwave and Guided Wave Letters 6.1 (Jan. 1996 [MGWL]): 13-15.

A waveguide-to-microstrip transition is proposed, modeled, and validated through a prototypical design. The transition is shown to possess characteristics required in many high-frequency systems, namely wide-band response, ease of construction and hermetic isolation of the two transmission media. Implementation in a waveguide-to-microstrip power divider (three-port) form is detailed here, but other feasible variants are mentioned. Favorable agreement between the proposed model and measured results is observed.

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