Abstracts

A New Type of Waveguide-to-Stripline Transition (Correspondence)

R.H. Knerr. "A New Type of Waveguide-to-Stripline Transition (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.3 (Mar. 1968 [T-MTT]): 192-194.

There is a growing interest in integrated microwave stripline circuits using thin film and printed circuit techniques. Recent developments responsible for this integrated circuit interest include transistor amplifiers at microwave frequencies and several other components, such as circulators or couplers, all using stripline. These components are much smaller than the corresponding waveguide components and show at least equal electrical performance. The use of these printed integrated circuits in connection with waveguide systems creates the need for a direct, high performance broadband transition from waveguide to stripline. This device replaces the more costly transitions from waveguide to coax and then from coax to stripline. The transition is also an integral part of the strip-line circuitry, permitting smaller and less expensive integrated devices since both the waveguide and the stripline parts may be included in the same housing.

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