Abstracts

Microstrip to Waveguide Transition Compatible with MM-Wave Integrated Circuits (Short Papers)

W. Grabherr, B. Huder and W. Menzel. "Microstrip to Waveguide Transition Compatible with MM-Wave Integrated Circuits (Short Papers)." 1994 Transactions on Microwave Theory and Techniques 42.9 (Sep. 1994, Part II [T-MTT]): 1842-1843.

Microstrip to waveguide transitions used presently typically require a relatively complex waveguide mount extending on both sides of the planar circuit. Additionally, the planar substrate has to be cut into specific forms limiting the flexibility of the planar circuit design and complexity. In this paper, a new type of transition is described based on the principle of slot coupled antennas radiating into the waveguide. In this way, the extension of the planar circuitis not restricted, and at the same time, the involved antenna element can be used to hermetically seal the microwave/mm-wave input.

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