

Abstracts

A novel microstrip mode to waveguide mode transformer and its applications

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A microstrip-to-rectangular waveguide mode transformer that can be implemented using PCB technology is presented. The RT/Duroid based transformer has a wide simulated frequency response extending from 55 GHz to 140 GHz with about 0.15 dB radiation losses, Many important applications that are easy-to-manufacture are possible. Measurement results of a typical configuration are presented.

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