

Abstracts

A novel microstrip mode to waveguide mode transformer and its applications

N. Jain and N. Kinayman. "A novel microstrip mode to waveguide mode transformer and its applications." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 623-626 vol.2.

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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