

Abstracts

Surface Wave Losses at Discontinuities in Millimeter Wave Integrated Transmission Lines

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Using a fullwave analysis we have calculated the loss due to surface wave and space wave radiation at three types of discontinuities in planar millimeter wave transmission lines. The open ended microstrip, the microstrip gap and the short circuited coplanar waveguide were investigated on electrically thick substrates. Results on typical high dielectric substrates are presented.

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