

Abstracts

Reduction of Propagation Losses in Coplanar Waveguide

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Coplanar Waveguide (CPW) is finding increasing use in microwave and millimeter wave integrated circuits. CPW has several advantages over microstrip, but its ohmic loss tends to be larger because of the concentration of its currents near the metal edges. Two methods for reducing ohmic loss in CPW are proposed and studied using a numerical technique. It is shown that the propagation loss can be reduced by approximately a factor of four.

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