

Abstracts

A new broadband coplanar waveguide to slotline transition

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A new broadband CPW to slotline transition is proposed and analyzed in this paper. This new transition utilizes CPW-slotline mode conversion phenomenon to convert CPW mode to slotline mode, and the transition bandwidth is broadened by the use of air-bridges. The Finite-Difference Time-Domain (FDTD) method is employed to analyze the transition and a very wide transition bandwidth is observed. A relatively good comparison is made with experiment results further verifies the concept.

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