

Abstracts

Experimental Investigations of CPW-Slotline Transitions for Uniplanar Microwave Integrated Circuits

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Eight new coplanar waveguide (CPW) to slotline transitions using uniform and nonuniform CPWs or slotlines will be discussed. These transitions are uniplanar and simple to fabricate. No via-holes are needed for ground connections, and integration with solid state devices are easy. A pair of broad-band transitions using CPW shorts and slotline radial stubs is demonstrated with a 1 dB bandwidth of more than 5.2:1.

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