Abstracts

CPW to waveguide transition with tapered slotline probe

Ting-Huei Lin and Ruey-Beei Wu. "CPW to waveguide transition with tapered slotline probe." 2001 Microwave and Wireless Components Letters 11.7 (Jul. 2001 [MWCL]): 314-316.

A new CPW to waveguide transition is developed based on the concept of tapered slot antenna and E-plane probe coupling. The transition consists of a tapered slotline probe and a slotline to CPW matching section. The current design has the advantages of broad bandwidth, compact size, low fabrication cost, and high reliability. The characteristics of a prototype transition are investigated by numerical simulation on Duroid substrate and WR-90 waveguide. The back-to-back combination is measured to verify the agreement with the simulated results and realization of this design.

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