Abstracts

Wide-Band Transitions for Applications in MMIC's and OEIC's

D. Mirshekar-Syahkal, D.J. Newson, D. Wake and I.D. Henning. "Wide-Band Transitions for Applications in MMIC's and OEIC's." 1994 Microwave and Guided Wave Letters 4.9 (Sep. 1994 [MGWL]): 299-300.

Three different coplanar waveguide-to-slotline transitions on InP for operation around 30 GHz were designed. The performances of these transitions in back-to-back configuration were simulated and measured over 1-50 GHz. They were found to possess wideband characteristics. In particular, two of them had bandwidths as large as 35 GHz. The design of these transitions were carried out with the view to monolithically integrating tapered slot antennas with coplanar waveguide circuits on InP substrates.

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