

Abstracts

Computer-Aided Testing of Mixers Between 90 and 350 GHz

M.T. Faber and J.W. Archer. "Computer-Aided Testing of Mixers Between 90 and 350 GHz." 1985 Transactions on Microwave Theory and Techniques 33.11 (Nov. 1985 [T-MTT]): 1138-1145.

Two computer-controlled measurement systems have been constructed to allow testing of millimeter-wave Schottky-barrier diode mixers in the frequency range from 90 to 350 GHz. A theoretical background to mixer measurement is presented and the design of the instruments and associated computer software is described. In a companion paper, a typical application of the measurement system to the testing and evacuation of a practical W-band, cryogenic, fixed-tuned Schottky diode mixer is used to demonstrate the performance and versatility of the instruments.

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