

Abstracts

Conversion Loss and Noise of Microwave and Millimeterwave Mixers: Part 2--Experiment

D.N. Held and A.R. Kerr. "Conversion Loss and Noise of Microwave and Millimeterwave Mixers: Part 2--Experiment." 1978 Transactions on Microwave Theory and Techniques 26.2 (Feb. 1978 [T-MTT]): 55-61.

The theory of noise and conversion loss in millimeter-wave mixers, developed in a companion paper, is applied to an 80-120-GHz mixer. Good agreement is obtained between theoretical and experimental results, and the source of the recently reported "anomalous noise" is explained. Experimental methods are described for measuring the embedding impedance and diode equivalent circuit, needed for the computer analysis.

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