

Characterization of Spurious-Response Suppression in Double-Balanced Mixers

D. Regev. "Characterization of Spurious-Response Suppression in Double-Balanced Mixers." 1990 Transactions on Microwave Theory and Techniques 38.2 (Feb. 1990 [T-MTT]): 123-128.

A new analysis of spurious-response suppression in double-balanced (DB) mixers, using the diode current-voltage characteristic, is presented. A theoretical relationship between different spurious responses and the input power level is shown. This relationship leads to the following new conclusions: 1) a direct relationship exists between the spurious-response suppression and the spurious-response order of the RF component, and 2) a linear relationship exists between the spurious-response suppression and RF power. Experimental results are presented, showing close agreement with the above conclusions.

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