

Effects of offsets on bipolar integrated circuit mixer even-order distortion terms

D. Coffing and E. Main. "Effects of offsets on bipolar integrated circuit mixer even-order distortion terms." 2001 Transactions on Microwave Theory and Techniques 49.1 (Jan. 2001 [T-MTT] (Mini-Special Issue on 2000 Radio-Frequency Integrated Circuits (RFIC) Conference and Automatic Radio Frequency Techniques Group (ARFTG) Meeting)): 23-30.

Second-order intermodulation products in bipolar double-balanced mixers can be generated due to device mismatches. These spurs are analyzed theoretically and in simulation. Guidelines are presented that show the maximum acceptable mismatch to meet a given second-order intercept-point specification.

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