

Abstracts

A novel dc-offset cancellation technique for even-harmonic direct conversion receivers

B. Matinpour, S. Chakraborty, M. Hamai, C. Chun and J. Laskar. "A novel dc-offset cancellation technique for even-harmonic direct conversion receivers." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 631-634.

We present a novel dc-offset cancellation technique in antiparallel diode pair even-harmonic mixers for direct conversion receivers. Using fundamental equations we describe the contributions of diode mismatch to dc-offset and present a novel method for dc-offset cancellation using the 2nd harmonic of the LO. Measurements confirm the equations and verify complete dc-offset cancellation using the proposed method.

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