

Abstracts

Transfer Properties of the Upper-Sideband Varactor Upconverter

E. Loser. "Transfer Properties of the Upper-Sideband Varactor Upconverter." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 158-160.

The large signal upper-sideband varactor upconverter is theoretically investigated. Using measurable quantities as parameters, gain linearity and phase conversion are computed and optimized at specific input mismatches. Furthermore, noise conversion from bias and inputs is studied under large signal conditions. The bias termination proves to be critical to all noise transfer coefficients.

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