

Abstracts

Design of ultra low noise mixer using an analytical formulae of the noise figure

F. Danneville, B. Tamen, G. Dambrine and A. Cappy. "Design of ultra low noise mixer using an analytical formulae of the noise figure." 1999 MTT-S International Microwave Symposium Digest 99.1 (1999 Vol. 1 [MWSYM]): 117-120 vol. 1.

Based on an analytical formulae of the minimum noise figure for active FET mixers, it is shown that the noise performance of such circuits is strongly related to those of the FET used as a low noise amplifier. Consequently, ultra low noise active FET mixers can be investigated in such a way.

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