

Noise figure & associated conversion gain of a GaAs heterojunction bipolar transistor mixer

B.A. Xavier and C.S. Atkinson. "Noise figure & associated conversion gain of a GaAs heterojunction bipolar transistor mixer." 1997 Radio Frequency Integrated Circuits (RFIC) Symposium 97. (1997 [RFIC]): 135-138.

An analytical technique is developed to predict the noise performance of the GaAs Heterojunction Bipolar transistor (HBT) mixer. The measured versus modelled data shows good agreement. The measured noise figure of the HBT mixer is 15.7dB with an associated conversion gain of +13dB (RF=950MHz, IF=50MHz).

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