

Abstracts

A GaAs MESFET Balanced Mixer with Very Low Intermodulation

S.A. Maas. "A GaAs MESFET Balanced Mixer with Very Low Intermodulation." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 895-898.

A new type of balanced resistive mixer has been realized by using the unbiased channel of a GaAs MESFET as the mixing element. Because this resistance is only very weakly nonlinear, very low intermodulation results. State-of-the-art second-and third-order output intercept points of 34 and 21 dBm are achieved, with 7 dB conversion loss at X band.

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