

Abstracts

On the performance of different HEMT cryogenic mixers

I. Angelov, M. Garcia and H. Zirath. "On the performance of different HEMT cryogenic mixers." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 853-856.

Performance of different HEMT mixers -i.e. gate, drain and resistive (microstrip and waveguide) has been studied experimentally at room and cryogenic temperatures. Conversion gain (loss for the resistive mixers) at cryogenic temperatures improves approximately 1/spl divide/1.5 dB. The noise figure improves too - all the mixers show 2-3 dB improvement in the noise figure performance.

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