

Abstracts

Intrinsic noise characteristics of AlGaN/GaN HEMTs

Sungjae Lee, V. Tilak, K.J. Webb and L.F. Eastman. "Intrinsic noise characteristics of AlGaN/GaN HEMTs." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1415-1418 vol.3.

Intrinsic noise sources and their correlation in AlGaN/GaN HEMTs are extracted and studied. Using three noise parameters obtained from microwave noise measurements and S-parameter data, two intrinsic noise sources and their correlation are specified by applying a noise deembedding technique, and their dependence on frequency and bias point is investigated.

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